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#### CONTENTS

Metals and Minerals Page 1 Countries Page 4 Methods and Machines Page 8

Companies and Other **Public Bodies** 

Page 10

#### INDEX CLASSIFICATION

L Letters **Notes and Comments Mining Digest** M Methods and Machines **Obituaries** Editorial ME Company Meetings Highlights MF Mining Finance **Book Reviews** Industry in Action MW Mining Week Metal Markets

> This combined index covers the complete editorial content of both Mining Journal and Mining Magazine. Additional copies may be obtained from the Subscription Department.

#### **Metals and Minerals**

#### ALUMINIUM

New impetus for aluminium	5	J023
Aluminium smelter rate	13.	J027
Kaiser maintains alumina		
deliveries	IA	J028
Aluminium consolidates	S	J039
U.S. aluminium output plans	IA	J044
Arco/Kaiser restart potline	IA	J044
Dubal output up	IA	J044
Alcan awaits Kemano approval		J063
Bright future for Tomago	MW	J072
Comalco shows increase	IA	J079
Hesitancy for aluminium	S	J090
Norwegian viewpoint	IA	J105
Smelter plan shelved	18	J110
Contrasting patterns for	MW	J119
copper and aluminium	S	J119
Alumin'um back-pedals Reynolds plant closure	IA	J123
Continued Al imports for	IM	3127
India	IA	J127
Aluminium totters	S	J141
	IA	J145
Wagerup start up Potline reopening for Ormet	IA	J145
Smelter modernization	IA	J146
Balco wins power assurance	IA	J146
Go-ahead for alumina plant	MW	J172
Aluminium subdued	S	J174
Tomago update	IA	J178
Indian merger setback	MW	J189
Portland smelter work to	-	0.200
resume	IA	J195
U.S. aluminium down	IA	J195
Potline resumption for		
Reynolds	IA	J212
Egypt to export aluminium	IA	J213
Aluminium lacks direction	8	J227
Davy McKee wins Al mill		
contract	IA	J231
Aluminium ignores		
fundamentals	S	J247
Alcan Quebec smelter		
schedule	IA	J271
Aluminium struggles	S	J282
Saudi aluminium plans	IA	J301
Manitoba smelter plans	IA	J302
Authorization for NWTC	IA	J320
Aluminium slides	S	J334
Bintan boost	IA	J337
Alumina production from		
Worsley	IA	
Aluminium stocks down	S	J338
Aluminium on the mend	IA	J351 J354
Martin Marietta cutback U.S. aluminium output	IA	J354

necord nigh for Japanese at			
imports	IA	J372	
Alumina exports planned	MW	J381	
Aluminium stockpile for			
India	IA	J387	
Aluminium totters	S	J403	
Aluminium stocks up	TA	J407	
Pacific Northwest power	2.74	0401	
debate	IA	J428	
Alcos to cut back	IA	J440	
sicoa to cut baca	14	3440	
ANTIMONY			
Battery boost for antimony	MW	J037	
Bolivia to reduce antimony			
exports	IA	J079	
Smelter expansion	LA	J094	
Antimony supply problems	IA	J111	
Antimony mine in New			
Brunswick	IA	J370	
Minor metals stumble	S	J423	
Caracota mine suspension	IA	J441	
CHIROUTH MINU BROPORDION	2.20	0.522	
ASBESTOS			
Asbestos company sues			
Federal Government	IA	J080	
Woodsreef develops wet			
milling process	MW	J138	
New curbs proposed	MW	J349	
BAUXITE			
Bauxite workers on strike	IA	J027	
Brazilian project on			
schedule	MW	J038	
Joint bauxite project			
considered	TA	J044	
Guymine exports down		J063	
Credit for Bauxites de			
Guinee	IA	J079	
Jamaica: bauxite output down		J110	
Bauxite appeal	IA	J178	
Regeneration at Weipa	A.M.	2110	
Bauxite	A	M206	
	A	11200	
Guyana bauxite: signs of		J253	
improvement	AI		
Bauxite levy	IA	J302	
Ghana: bauxite transport			
difficulties	IA	J321	
Bauxite mine to close	IA	J338	
Bauxite and aluminium plans	IA	J387	

Article

## Aluminium meets resistance S J367 Kaiser evaluates operations IA J370 Queensland quandary WW J121 BENTONITE Industrial minerals production in Hungary BERYLLIUM Beryllium prospect for Bearcat and Colt CADMIUM On the move Less Japanese cadmium? **CHINA CLAY** China clay: a key resource CHROME Ferrochrome shipments from Greece Ferrochrome production in the Philippines Togo: minerals plan New chromite proposals IA J111 Coal: trade prospects reexamined Gloom for European producers NW JUUN El Cerrejon coal project shead of schedule Appendix of schedule IA J010 IA J010 IA J010 IA J010 -up Thai coal Coal mine fate sealed Colombian plans Belvoir coal project go-

ahead Czech lignite

**BEACH SANDS** 

NSW coal exports	IA	J028
Teck coal shipped	IA	J044
Newlands coal leaves mine	IA	J044
Mine application denied	IA	J045
U.K. prospects	BRE	J057
Troubles in France	100	J057
Stage two for coal	-	
liquefaction project	IA	J062
Coal price cut for SA	***	
producers	EA	J063
Coal from mine waste with		2000
Hungarian process	p.	10009
More coal acquisition for		1000
Peabody	DEV	J071
India increases coal output	IA	J079
Coal slurry plant	IA	J079
World Bank help for India	IA	J093
Pailure of coal talks	IA	J095
French coal imports	TA	J095
U.S. exports down	IA	J095
	IA	J095
Chinese coal sales	IA	2082
Agreement for Cyprus Coal	IA	J095
and Eurocoal	IA	J095
Coal handling system	IA	2093
El Cerrejon production		J111
begins	EA	J111
Ariake mine future unsure	IA	J111
Second face for Wistow	1.00	3111
S.A. coal sales expected to		
rise	IA	J111
Indonesian coal for Japan	AI	J111
Coal washery for Ombilia	IA	J112
Arckaringa coal reserves		
upgraded	166	J119
Go-ahead for coal project Alaskan coal tested in Japan	IA	J126
Alaskan coal tested in Japan	IA	J126
Record output for coal		
province	AI	J127
Australia improves coking		
coal trade with Japan	IA	J127
Andhra Pradesh coal find	IA.	J145
Coal find for China	IA	J145
Morocco to increase coal		
imports	IA	J147
Offshore success for Massey		
Coal	NEW.	J155
Sage Creek approval	IA	J160
Steel cutbacks hit Balmer	IA	J160
Yen loams for Chinese coal		
projects	IA	J160
Lignite mine for		
Czechoslovakia	IA	J160
Occidental and China at odds	MA	J173
W.A. coal finds	TA	J177
Brockwell reopening	IA	J178
Coal consumption up	AI	J179

Confrontation at the pithen Antaibo go-ahead	d M	J188 A J195	Polish copper Befined copper imports to	IA	J010	Copper mill for Nippert Kennecott to cut back	IA	J426 J427	Pascalis update Jackson-Manion diamond	IA	J110
Taiwan to mine coal in	1/		rise by 70% Copper flags	IA		Lower copper imports	269	J436 J437	drilling	IA	J110
Indonesia? ASEAN coal predictions	E	A J195	Ok Tedi delav	IA	J023 J026	Weak sterling aids copper La Escondida project	IA	J440	Seattle mine agreement Gold and silver surge	IA	J111 J123
Ariake reopening Lignite mine for G.D.R.	I/		Sipalay to reopen Hammaslahti mine improvement	t IA	J027 J027	ITC copper split Copper price damages Chilean	IA	J441	Sudanese gold find for Greenwich Resources	IA	J126
JV for Amax and Petrofina American Coal: export	11	J196	Rise in copper output Copper depressed	IA	J027 J039	export revenue Kakul phosphate, Pakistan;	IA	J441	Drilling programme for Endeavour	IA	J126
trading Coking coal talks for	II.	J198	Oman copper search Copper Rand shaft	IA	J043	and news of Saindak	P	M515 M538	McLaughlin gold project	IA	J126
Australia and Japan	X.	J196	development	IA	J043	Marketing of copper			January gold output Mt. Henry irons out problems	IA IA	J127 J127
Coal: Alberta's slurry solution	30	J203	Production soon from Sar Cheshmeh	IA	J044	concentrates	A	M568	Rise in industrial demand for gold	IA	J127
Lignite mine for Yugoslavia Japanese coal output	1/		LME copper perks up Government grant for Mines	8	J058	DIAMONDS			Alluvial mining boost for	MW	J137
Coal equipment for India	IA	J213	Gaspe	IA	J062	Diamonds - Aredor update	100	J036	Brazil Pine Creek update	IA	J144
Go-ahead for Belvoir Eximbank support for loss	P IA	W193	Sipalay suspension Mitsui: copper cutbacks	IA	J062 J062	Argyle diamond output	IA	J078	Swayze gold belt reserves Gold jv for Brunswick Oil	IA	J144 J144
Philippines coal emergency Turkey's lignite development	IA	J231	Cyprus Bagdad cutback Copper import tariffs for	IA	J063	Aredor diamond project, Guinea nears start-up	p	M118	Porgera extension Alaskan gold find	IA	J144 J145
plans queried	M		Brazil?	IA	J063	Smuggling thwarts efforts to raise diamond output	10W	J137	Rouganat-Cadillas	IA	J160
East Germany boosts output Mee Moh aid	IA		Sherritt Gordon plans for Ruttan	IA	J063	Bihar diamond search	IA	J144	Burbanks gold mine Alluvial gold in Peru	IA	J160 J160
Snap Creek first shipments scheduled	IA		Separation by flotation of copper-lead-zinc			Botswana improves diamond sales	IA	J161	Gold Quarry design contract	IA	J161 J161
Chasnalla new life Coal pricing problem for NSI	I A	J253	sulphides Optimism for copper	A	M036 J075	Aredor start up Diamond bourse for India	IA	J213 J254	Griffin's Find on schedule W. Australia gold find	MW	J173 J177
and Japan	EA		Japanese copper output at record level	IA	J078	Jubilee drilling for De Beers	IA	J301	Royal Hill feasibility study	IA	J177
NSW exports record Semirara coal study for	IA		Yugoslav copper plans	IA	J079	Crushers for Argyle	IA	J339	More drilling for Calypso n-2 drilling resumes	IA	J177 J194
Dames & Moore Market for El Cerrejon coal?	IA		Codelco responds to import ceiling suggestion	IA	J079	Northern Mining financing Underground development at	IA	J370	Underground work for Granites prospect	IA	J194
Strife in U.K. coalfields	M	J277	Cyprus Bagdad closure Copper marks time	IA	J080 J090	Pinsch, South Africa Diamond mining in Angola	PA	M514 M530	Delta Gold plans Gold search in Solomon	IA	J194
Goodhope Colliery provides more export tonnage for	MW		Zambian copper and cobalt Granduc closure	IA	J093 J094	Diamond Billing In August	**	2000	Islands	IA	J194
Amcoal Coal export proposal opposed			Production suspension at			GALLIUM			Balmoral to mine Great Western	IA	J195
International Coal Show, Chicago, U.S.A.	м	1283	Batong Buhay Copper talks for Nippon and	IA	J094	Japanese gallium for U.S.	IA	J127	S.A. gold Mexico to increase gold	IA	J195
Quintette status report	IA		Phelps Dodge Mantos Blancos copper	IA	J095	Japan reports gallium imports	IA	J161	San Antonio hopes	IA	J195 J212
Coal port loan S.A. coal price rise	IA	J287	contract	IA	J095 J101	Apex mise on schedule	IA	J353	Ghana plans for gold		
Polish coal exports up Coal research facility	IA	J287 J287	Copper conflict deepens Stocks fall lifts copper	8	J107	05110701150			industry Progress at Montana gold	IA	J212
The coal comundrum Australian coal for domestic	E	M295	Bajo de la Alumbrera go-	IA	J110	GEMSTONES			project Gold and silver stumble	PS	M194 J227
use and export	P	M301	ahead SCCM to use Dar for exports	IA	J110 J112	Gemetones find Zambia cancels emerald	IA	J061	Greece: gold projects Gold iv for Pancontinental	IA	J230 J230
Polish coal - recent news on preparation and quality	P	M303	Contrasting patterns for copper and aluminium	MW	J119	agreement	IA	J428	Underground work for		
Quintette - Canada's new coal mine	A	M316	Sohar so good	HW	J121	COLD			Pascalis Ok Tedi gold allocated	IA	J230 J231
International Coal Show Reconstruction of the Jharia	A	M331	Copper easier Philippines copper output	8	J123	GOLD			S.A. gold export earnings Thailand gold plans	IA	J231 J251
coalfield, India	A	M349	down Government applies	IA	J126	Gold mine revival Camflo gold find	IA	J006 J009	Bolivian gold concessions	IA	J251
Exploration drilling for shallow coal reserves	M	#388	restrictions	IA	J126	Marvel Loch encouragement	IA	J009	Rowan property results Hayden Hill agreement	IA	J251 J252
Optimism at U.S. coal show World Bank funding for Mae	MA	J296	Copper lacks momentum Japanese copper output down	S IA	J141 J146	Western Australia: gold mining revival			Hunter gold mine Agnico-Eagle 1984 hopes	IA-	J252 J253
Moh Coal producer for GFSA	IA	J302 J303	Zambian copper mine to close Family dispute over	IA	J146	Far East Rand tailings	MM	J019	Lupin blossoms	MW S	J263 J267
Coal agreement for	IA		Philippines copper smelter	NW	J155	project takes shape Drilling at Sunnyside	MW	J021 J026	Pine Creek reserves Drill results from Spargos		J270
Occidental and China Coal supply contract for MCB	IA	J303	Copper stocks fall again	8	J158	Wiluna gold venture	IA	J026	Reward	IA	J270
Yugoslav coal output Glace Bay fire damage	IA	J320 J320	Wine closure at Mt. Gunson Zambian loan from World Bank	IA	J161 J162	Dee mine moves ahead Montoro gold project	IA	J026 J027		IA	J281 J285
Coal producers defend prices	IA	J320 J320	Cu concentrates - danger signals	N	J169	Federal assistance for Destor	1A	1028	Alaskan gold involvement for	IA	J285
Coal for power generation Quinsam postponement	IA	J337	Ertsberg update Etibank in copper projects	IA	J177	Krugerrand sales in 1983 Development to start at	IA	J028	Joint venture agreement on		
Japanese coal imports up New coal ports opened	IA	J339 J350	Tintava sale planned	IA	J177 J178	Gebeit	MW	J036			J285 J287
Meekatharra awaits coal field decision	IA	J353	La Caridad force majeure Copper advance continues	IA	J178 J191	Gold suffers Brunswick reports on gold	8	J039	Australian gold mine	p	M300
Approval for lignite project		J353	Sacaton closure Sohar output improves	IA	J195 J195	prospects Hampton-Centennial reserves	IA	J043 J043	Exploration and development at the Hishikari gold		
Japanese investment in coal project rejected	IA	J355	Chilean copper exports down	IA	J196	Agreement for Mungana and	IA	J043	mine, Japan	p	M303
Coal production underway at Cerrejon North Block,			A modest revival? Copper stocks pluage	S	J203 J207	FMC gold-silver discovery	IA	J043			J301 J301
Colombia Coal co-operation for India	P	M425	Coroccohuayco study Ball mill for Bougainville	IA	J211 J212	Doornkop new shaft Montana Tunnels start-up	IA	J043	Queensland gold agreement	IA	J301
and France	IA	J386	Copper smelter for Taipower Copper imports jump	IA	J212 J225	planned Krugerrand sales in Hong	IA	J043	Hoyle Pond progress	IA	J301 J302
France: lower coal imports in 1984	IA	J389	Copper stocks decline slows	8	J227	Kong	IA	J045	S.A. gold	IA IA	J302 J303
Pittston signs coal contract Outbursts is mines	IA	J389 J401	Approval for Zambian loan Wind of change in the copper	XA	J231	Williams reserves up Noranda start-up in 1985	IA	J061 J061	Gold find for Noranda Gold interest for Australian	IA	J319
Quinsam project update	IA 1A	J406 J407	industry Copper steadier	S	J246 J247	Mighty Splash update	IA	J061	company	IA	J319
Romania to increase coal			Windy Craggy underground work	IA	J251	Donaybrook drilling programme	IA	J061		IA	J319
Output Nonkman debate continues	IA	J407 J408	Copper stocks fall again	8	J267 J271	Zarn Lake drilling programme Gold Creek: further	IA	J061			J319 J319
Australian tender for Indonesian coal			Setback for copper	IA S	J282	encouragement	IA	J061 J061	Kalgoorlie feasibility study	IA .	J319
Assistance for Baluchistan	IA	J409 J426	Zambian copper and cobalt	IA	J286	Shaft-sinking starts at			Whim Creek's Haveluck mine		J320
Great Plains project	IA	J426	sales		J287 J313	Golden Crown Cluff Oil to develop mine in	IA	J062	South African output to		J332
	IA	J427	Perplexing times for Phelps			Substantial increase in	IA	J062	remain high Worcester gold mine back as	MI .	J333
NCB buys coke for U.S. export contract	IA	J428	Setback for copper	MW S	J313 J315	Canadian gold output	IA	J062 J062	producer		J338 J338
Australia cuts soft coal	IA	J428	Japanese copper imports down One year delay for Ok Tedi	IA	J320	Aid for Dominican Republic exploration	D	M010	Progress at Huemules	W.	J349
Greek lignite find	IA	J440 J440	copper	MW	J332 J338	Re-evaluation of New Zealand	-		Black Swan takes up option	IA .	J353 J353
Japan seeks coal price cuts			Chuquicamata looks ahead	IA	J338	gold mine Gold mining at Le Bourneix,	P	M011	Gold mines for India		J353 J354
Indian coal imports	IA	J441 J441	CIPEC stays out of U.S.		J338	France	D	M105	Progress at Gold Quarry, Nevada, U.S.A.		M426
Gasification of brown coals in Poland	P	M516	Exxon opposes copper		J339	Wagga Wagga gold find for Seltrust		J078	Gold mining in Chile		M460
			restrictions		J339 J348	Gold mine for Benguet	IA IA	J078 J078	factors affecting the selection of methods of		
COBALT			More Indian copper	IA	J354	Gold projections	IA IA	J078 J079	gold analysis Gold mining at Salsigne,	1 1	1468
	WW	J037	Updates on Neves-Corvo Cu-Zn	IA	J354	Krugerrand sales surge in	MM	J089	France		1498
Nonoc closure affects		J062	project	PS	M429 J367	Dollar jitters boost gold	S	J090	Mishibishu Lake diamond		J361
Status Longo	IA	J693 J158	Copper contract changes	IA	J371	Increased reserves for Black	IA	J092	Programme for Californian		J370
Cobalt price rise	S	J191 J286	Brazil: copper autarky		J386	Hill and Australian	IA	J092	gold project	A .	J370 J370
Nodules or crusts from			failure Pasar shipments to halt in	IA	J387	Beaton's Creek	IA	J092 J092	Gold companies amalgamate I		1372
	MW S	J364 J423	July		J407	Lucky Jim jv	XA	J092	Hemgold to acquire SA property?	IA .	1372
			U.S. Trade Commission favours	4.00	J408	Joe Mann mine	IA	J093 J093	Public and private sector co-operation on gold		
COPPER				MW	J420	Goldrin buys gold options New quarry in sight for	14	J095	mining		7380 7386
Yugoslav copper	IA	J009	Copper under renewed pressure	8	J423	Newmont		J105 J110	Alkane-Golden Plateau in	A J	
						A WANTED A WINDOW	0.	- 40	SAIRS WITH REHRECOTT I	ed 6	330

Amir acquires E.R. Extension	TA	1406	LITHIUM			Dead Sea contract		J161	Canalian harres 1980 at-		****
Erickson reports on gold project	IA	J406	Lithium shipments	IA	J386	Thai potash Go-ahead for potash project	IA IA	J161 J194 J285	Sterling boosts LME tin East Kemptville contracts Peninsular tin exports up	IA IA	J351 J353 J355
Gold smuggling in Venezuela Krugerrand sales down	IA IA	J409 J409 J420	MAGNESIUM			Jordanian potash Feasibility study for potash	IA	J354	Tim seized Tim still supported	S	J355 J367
Uneconomic gold production Squall Lake results Harbour Lights state approva	IA	J426	Better times ahead?	w	J120	Problems for potash project	IA	J371 J407	EL tis mart approved ITC buffer stock: no change	S	J383 J389
obtained S.A. gold output up Serra Pelada to reopen	IA IA	J426 J427 J427	Magnesium production rises Breakthrough for magnesium	IA MW	J161 J333	ROCKSALT			Ruala Lumpur market approved Brazilian tin exports		J389 J389
Colombia to sell off gold	IA	J428	MANGANESE			Rocksalt project plans alrandosed	IA	J126	Tin mining workforce cut by a third Further advance for tin	MW	J399 J403
reserves Valdez Creek drill results Samson and Samantha buy into	IA	J428 J440	Ferro-manganese producers	IA	J126	SELENIUM			March tis output Tis sales	IA	J408 J408
Temora find Gold mine interest for Nerco	IA	J440 J442	investigated Manganese crusts Manganese for China	IA IA	J145 J231	Selenium production	IA	J111	Sale of stockpiled tim New high for tim Thailand tim exports	SIA	J409 J423 J428
Gold drilling results from Western Australia	P	M516	BHP manganese for U.S.S.R. Manganese - hostage to steel	IA	J355 J433	Selenium joins the Bulls	NW	J223	Wheal Concord operations sold	IA	J428
GYPSUM			MICA			SILVER			Gulf smelter not for sale Tin strides on Wheal Pendarves reserves	S	J428 J437
Optimisation of rotary			India exports more mica Indian mica for U.S.S.R.	IA IA	J079 J339	Veta Grande sale Clayton to re-open Silver stocks	IA IA	J010 J044 J044	out look	IA	J441
drilling for bolting and blasting	D	11498	MINOR METALS		0.000	Market prospects Equity to reduce costs	IA IA	J044 J062	TITANIUM	M	J033
ILMENITE			Rhodium and bismuth surge	s	J351	Gold and silver surge Jervois Range suspension New mill circuit for Equity	IA IA	J123 J127 J145	Titanium producers at odds	В	3033
Ilmenite off Indian coast Ilmenite plant for Sri Lanka	IA IA	J026 J178	MOLYBDENUM			Manridg: reports on silver property	IA	J160 J161	TUNGSTEN Mt. Pleasant nears full		
IRON			Sharp fall in Chile moly			Peruvian silver sales Contract for Paradise Peak Echo Bay-Westsun jv	IA	J161 J177	capacity Sombre outlook	1A NW	J043 J073
Venezuela: Fe and Al output	IA	J010	New molybdenum producer in Idaho, U.S.A.	IA P	J063	Clayton production resumes Gold and silver stumble	IA	J178 J227	MacTung status Canada Tungsten drilling	IA	J110 J337
Stocks of iron ore in U.S. Government aid for Zisco Agreement over iron ore	NW	J027 J089	New chemicals for Mo recovery	M	M092	Record silver stocks Tionaga: high silver values Silver sales reconsidered	IA MW	J247 J251 J264	results 1985 start-up for wolfram mine	IA	J370
prices Iron ore for North Korea	IA IA	J095 J095	Climax to reopen Brenda Mines reopening	IA IA	J161 J178	Gold and silver dawdle Approval for silver disposal	S	J267 J271	Wolfram mine	Al	J406
Iron ore: Australian producers grasp the nettle	MW	J104	Quartz Hill indefinite postponement The mine at Goat Hill	IA A	J285	Nerco acquires silver interest Silver output	IA	J272 J319	URANIUM		
Carajas no delay Indian iron ore agreement	IA	J126				Veta Grande mine study Buchans mine to close	IA	J337 J387	Niger uranium for Egypt Cigar Lake details	IA IA	J011 J026
with GDR S.A. iron ore inquiry Rehabilitation of Angolan	IA	J128 J128	MONAZITE Thailand lifts export ban	IA	J442	SODA ASH			Egypt seeks French uranium	IA	J026
The research mine	PA	M119 M134	NICKEL			Revival of interest in			Uranium charges dropped Supply prospects reviewed Atlas uranium closures	MV IA	J027 J056 J127
Butler Taconite to resume production Kudremukh shutdown	IA IA	J146 J146	Brazilian ferro-nickel	IA	J044	Southern Africa	MA	J348	Key Lake clay problems Production declines	MF	J145 J157
Revised iron ore output Pilbara blueprint	IA	J178 J185	Japanese nickel sales show increase Nonoc nudges nickel	IA	J045 J058	TALC			U.K. to reduce uranium stockpile Merriespruit uranium	IA	J162
Goldsworthy: two more years U.S.S.R. strong iron ore demand	IA	J212 J213	Port Colbourne reopening Cerro Matoso delay	IA IA	J093 J111	Help for talc industry	IA	J080	smutdown Australian uranium reserves	IA IA	J178 J211
Quebec Cartier shutdown Hipasam shipments	IA IA	J231 J254	Boost for nickel Closure for ferro-nickel	S	J174	TANTALUM			Uranium prospecting is Nigeria Australia's uranium plans	IA IA	J211 J213
Iron ore caution Iron ore consumption up	IA	J265 J287	Inco nickel production changes	IA	J212 J231	Tantalum fraud charge Tantalum pilot plant Greenbushes' expansion	IA	J028 J301 J381	Key Lake uranium mine in production	P	M195
Fall in Brazilian ore shipments Brazilian steel exports	IA IA	J287 J302	Nickel - assessing the cost Inco break-even price	N IA	J241 J287	Thai tantalum project	IA	J407	Air and water borne pollutants from uranium mines and mills	D	M283
Bolivia: iron and steel complex	EA	J337	Marinduque to restart Nonoc Marinduque resumption New nickel mine for	IA	J298 J354	TIN			Production declines in 1983 Uranium: Pechiney to try new	NW	J244
Iron ore contract for Nippon China buys Australian iron ore	MM	J339 J379	Outokumpu New nickel organization	IA	J364 J389	Tim restless Thailand: tim exports fall	S	J007 J010	technique in Brazil Being: another casualty of the uranium market	IA	J287 J296
India relaxes iron ore ruling	IA	J409	Nickel: view from the bridge Nickel responds at last	S	J435 J437	MMC tin output Straits Tin: sbipments down	IA	J027 J028	Australian optimism Uranium exploration for	MA	J333
Carajas brought forward Iron ore pact rejected Rise in iron ore consumption	IA	J421 J427 J442	NIOBIUM			Indonesian targets Tin sales agreement No curbs on Singapore tin	IA IA	J028 J045 J075	Japan and China New uranium markets for Niger?	IA	J353
Rise in 170m ore consumption	1.6	3442	CBMM output down	IA	J387	Tin projections Malaysia lode mining	IA	J079	Uranium - the next 10 years	H	J377
KAOLIN			OIL			consortium considered Tin smuggling jeopardizes	IA	J079 J088	VANADIUM		
Industrial minerals production in Hungary	P	M193	Mechanical and thermal methods of oil-shale			Comibol to increase tim	IA	J094	Boost for vanadium Mustavaara remnins open	AI	J093 J302
			mining - a review	D	M403	Dilemma for BSM French tim prospect BSM replies	IA IA	J107 J126 J127	ZINC		
LEAD			PHOSPHATE			Tin mines for sale	IA	J127	New zinc complex planned	NW	J006
Lead perks up Karachipampa inaugurated	S	J007 J057	Yugoslav phosphate Delkor filter ordered	AI	J009 J028	Alluvial mining boost for Brazil Tin easier	S	J137 J141	Squeeze boosts zinc European producers think	S	J007
Rajpura-Daríba lead-zinc mine Lead wakes up	AS	M022 J090	Loan for Tunisia Slow recovery Phosphate production plans	IA	J092 J122	That tim slow down Tin marketing plans	IA	J145 J160	Zinc rides higher Zinc surges on renewed	S	J020 J023
Lead Inventories up Mcroccan lead sales	IA	J111 J111	at new North Carolina	p	M195	Thailand tries to stem tin smuggling Mobile headframe mids	AI	J162	Zinc takes a breather	S	J039 J058
	SP	J123 M121	Phosphate plant ordered Brazil: phosphate production	IA	J272	exploration at Wheal	POR.	J172	Planning permission granted for Bula mine New electrolytic zinc plant	P	M009
Lead and zinc surge Lull for lead and zinc Lead and zinc	SIA	J158 J174 J178	Kakul phosphate, Pakistan, and news of Saindak	IA P	J320 M515	Rio Algom considers smelter Thailand halts tin mining	IA	J178	opened in Canada Zinc surges again	PS	W010 J075
Stocks fall aids lead Labour problems boost lead	S	J191 J207				licences Critical times for tin ITC to hold surplus tin	IA S IA	J179 J191 J196	Fall is EZ zimc output Zimc outwits the analysts	IA N S	J079 J085 J090
Lavrion recommissioning New lead sinter plant at La Oroya	A	J212 M246	PLATINUM Platinum Noble sales	IA	J080	Tin revives Increased world tin deficit	SIA	J207 J212	Zinc bounces back Zinc loses ground Lead and zinc stocks fall	S	J107 J123
Strikes boost lead	SIA	J227 J231	S.A. platinum coil ruled out Noble sales		J161 J272	Smuggling control Peninsula's exports up	IA	J212 J213 J224	Minpeco force majeure on zinc	IA	J127
Lead hesitates Supply threats boost lead	S	J282 J299	Platinum for East Rand Cons. New Transvaal prospects	AI WM	J370 J400 J400	Hemerdon planning permission denied	IA	J231	Zinc takes a rest Amax zinc agreement Lead and zinc surge	S IA S	J141 J147 J158
Lead responds Glover reopening	I A	J299 J302 J312	Bull market for PGMs Platinum refinery for Lonrho		J426	Thai police seize tim Burmese tim	IA	J232 J253	Corpus Christi shipments schedule	IA	J161
Lead eases Lead improves	S	J315 J334	POTASH			Tin responds Export controls hit Malaysia's gravel pump	S	J267	Lull for lead and zinc Lead and zinc Mitsui to increase zinc		J174 J178
Aid sought for Trail Karachipampa further delay St. Joe prepared for	IA	J338 J353	China in potash talks A look at the Spanish potash	IA	J028	More support for tim	S	J280 J282	Thai zinc refinery 8t. Joe's Balmat mines	IA	J195 J211
shutdown	1A S	J354 J367	industry Chinese interest in potash	M.M. D	M105 J071	Collingwood iv farm-in	IA IA	J299 J301 J302	Zinc falters	S	M230 J227
Lead strengthens India to develop lead-zinc	S	J403	Potash handling contract for		J078	Tough challenge for BSM	IA	J302 J315	Zinc property talks Zinc falters Penoles resumption	SIA	J251 J282 J286
Mine Advance for lead	S	J406 J423 J437	PHB subsidiary Problems for Thai potash		J128 J145	Tin forecast Straits shipments up	IA IA	J320 J339 J346	MIN to boost output New surge for zinc	IA	J286 J334
	-	0401	project	LA	0140	Tin turns the corner	10	0.340	Zinc steadies	S	J351

Mexican force majeure	IA	J355	Ziac squeeze continues	8	J383	Spain to boost zinc output	IA	J407	Zinc steadies	s	J437
Zinc holds on Yugoslavian zinc find	SIA	J367 J370	Zambian sinc prospect Boost for Norwegian refinery		J386 J387	Zinc settles down Mint calls for metals	SIA	J423 J428	ZIRCONIUM		
Industrial Minera shipments	-		Zinc squeeze ends	8	J403	Soviet zinc order for					
resume	IA	J371	Zinc refinery update	IA	J407	Boliden	IA	J428	Zirconium output	IA	J111

### Countries

				н	M129						
ALGERIA			Liontown drilling Pine Creek update	IA	J144	New coal ports opened Donnybrook results	IA	J350 J353	BOTSWANA		
Trade agreement for India			Eia Ora/Getty jv	IA	J144 J145	Southern Ventures farm-out Watson Zone	IA IA	J353	Botswana improves diamond		
and Algeria	IA	J161	Lucky Break work continues CSIRO develops zircon for	IA		Black Swan takes up option	IA	J353	sales	IA	J161
			engineering ceramics	IA	J157 J160	Broken Hill return to work Embargo threat withdrawn	IA	J354 J355	Revival of interest in Southern Africa	MIN	J348
ANGOLA			Burbanks gold mine Mine closure at Mt. Gunson	IA	J161	Harbour Lights reserves	H	M433	Soda ash plant for Botswana		J386
Rehabilitation of Angolan			W. Australia gold find	IA	J177	Endeavour's gold/tin mine	H	M433			
iron ore mines	P	M119	Tailings projects for Golconda	IA	J177	Station Creek exploration Great Western gold news	H	M433 M433	BRAZIL		
Smuggling thwarts efforts to	NW	J137	More drilling for Calypso	IA	J177	Endeavour to earn Warrawoons	-		Brazil and Haiti: energy		
African pragmatism	N	J201 M530	Tomago update Sandmining job losses	IA	J178 J179	interest Otter gives details of New	IA	J370	plan agreement	IA	J011
Diamond mining in Angola	A	M230	Pilbara blueprint	N	J185	Griffin's Find			Brazilian project on schedule	MK	J038
ARGENTINA			Underground work for Granite	IA	J194	Miscovery Northern Mining financing	IA	J370 J370	Brazilian ferro-nickel	IA	J044
ARGENTINA			Portland smelter work to		J195	China buys Australian iron			Brazilian gold Copper import tariffs for	IA	J062
Argentina's plans and			Mt. Isa reschedules output	IA	J195 J195	Meekatharra drilling	IA	J379 J386	Brazil?	IA	J063
prospects Bajo de la Alumbrera go-	N	J053	Coking coal talks for			Alkane-Golden Plateau in			Brazil and France reach uranium accord	IA	J063
ahead	IA	J110	Australia and Japan Crushers for Argyle	IA	J196 J196	talks with Kennecott Nevoria go-shead	IA	J386 J386	CVRD to diversify interests	IA	J063
Hipasam shipments French investment in	IA	J254	New royalties scale for			Que River threat lifted	IA	J188	Japan negotiates Brazilian price cuts	IA	J080
Argentinian coal?	IA	J286	Broken Hill mines Australian uranium reserves	IA	J205 J211	MIM objects to National Parks plan	IA	.1389	Carajas no delay	IA	J126
Progress at Huemules	3686	J349	Goldsworthy: two more years Australia's uranium plans	IA	J212	Argonaut project Queensland claims for Indian		J406	Potash handling contract for PHB subsidiary	IA	J128
AUSTRALIA			Australia's uranium plans Kidston gold	IA	J213 W199	Queensland claims for Indian Ocean Resources	IA	J406	Brazil/Haiti accord	H	M129
AUSTRALIA			Golden Crown shaft sinking	H	M199	Mt. Monger	IA	J406	Alluvial mining boost for	MA	J137
Liontown drilling	IA	J009	Uranium lease Mighty Splash gold	H	M199	Bond Corp. buys Kalgoorlie stake	**	J409	Brazil BP finds Brazilian nickel	IA	J160
Marvel Loch encouragement	IA	J009	Wagga Wagga find	H	M199	Australian tender for	IA	2409	Co-operation for China and		
German Creek ready for start-up	IA	J010	More Kalgoorlie gold	H	M199	Indonesian coal			Brazil Non-ferrous trade surplus	IA	J213 J281
Power plant contract for			Gordan/Sirdar mine Delta Gold plans	H	M100	Contract Harbour Lights state	1A	J409	Central Bank buys more gold	MW	J281
Kukje Western Australia: gold	IA	J011	Drilling at Donnybrook	H	M199	approval o'tained	IA	J426	Fall in Brazilian ore shipments	IA	J287
mining revival			Mt. Rawdon Regeneration at Weipa	H	M199	Paddington funding Kwinana start-up considered	IA	J426 J427	Brazilian nickel find	H	M309
continues	MA	J019	bauxite	A	M206	Australia cuts soft coal			Brazilian steel exports	IA	J302
Australian company's involvement in two new			A record mine output for Cu-Pb-Zn in 1983	MW	J225	prices Samson and Samantha buy into	IA	J428	Brazil: phosphate production up	IA	J320
projects	M	J025 J026	Harbour Lights reserves	IA	J230	Temora find	IA	J440	Tin forecast	IA	J320 J321
Wiluna gold venture NSW coal exports	IA	J028	Bamboo Creek stake for Haoma North West	IA	J230	Gold tenements for Windsor Lawlers tailings project	IA IA	J440 J440	Brazilian contract for Dowty Public and private sector co	- IA	3321
Brunawick reports on gold	IA	J043	Gympie jv	IA	J251	Dolet Hills project	IA	J440	operation on gold		1000
Agreement for Mungana and			Northern Gold reports	IA	J251	Australian proposal for Thailand	IA	J440	mining Brazil: copper autarky	MA	J380
Aroco	IA	J043 J044	Endeavour launches Moolyella project	IA	J252	ht. Goldsworthy contract			Brazil: copper autarky failure	IA	J387
Newlands coal leaves mine Mighty Splash update	IA	J044 J061	CRA: no plans for Dampier		*****	Plan for Japan and Australia	IA	J441	CBMM output down Bauxite and aluminium plans	IA	J387 J387
Mt. Rawdon project	IA	J061	restart Coal pricing problem for NSW	IA	J253	Gold drilling results from	IN	J442	Brazilian tin exports	IA	J389
Donnybrook drilling	IA	J061	and Japan NSW exports record	IA	J253 J253	Western Australia Gold production at Central	P	M516	Carajas brought forward Serra Pelada to reopen	HW	J421 J427
Kidston work gets underway	IA	J061	Iron ore caution	MA	J255 J265	Kalgoorlie	н	M523	Lower copper imports	MW	J436
Shaft-sinking starts at Golden Crown	IA	J062	Pine Creek reserves	IA	J270	Nevoria gold plans Diamond prospects at Jubilee	H	M523 M523	Brazilian contract for PWH	IA	J441
Stage two for coal		****	Drill results from Spargos	IA	J270	Laverton gold results	H	M523 M523	RIHCARIA		
liquefaction project Endeavour gold find	IA	J062 M015	Leases for Murphyores	IA	J270				BULGARIA		
Griffin's Find targets	H	MO17	Outokumpu process for Olympic Dam	IA	J271				Bulgaria buys British Chain	IA	J011
Brown coal liquefaction North Kalgurli expands	H	MO17	Tasmanian strikes	IA	J272	BELGIUM			Bulgaria opts out of Kudremukh pact	**	J028
Curragh coal start up	H	MO17	Broken Hill talks Coal export proposal opposed	IA	J272 J281	BELGIUM			kudremukh pact	1.8	3028
Ben Lomond plans Australia joins ATPC	H	MO17	W.A. gold prospects	IA	J285	Anderson Strathclyde forms			DUDAGA		
Queensland coal project			Portland smelter: Witsubishi denial	IA	1286	new company Mine explosion		J011 J179	BURMA		
More reserves at Haveluck	H	MO17	Broken Hill dispute	IA	J286				Dressing plant for Burma	IA	J080 J128
Plenty silver-lead	Н	MO17	Resource tax issue Coal port loan	IA	J287 J287	BOLIVIA			Crushing plant for Burma Burmese tin	IA	J253
Coal power for Tasmania?	H	M017	Griffin's Find - a small								
Bright future for Tomago Renison-CGF agreement China to buy Australian ore	IA	J078	Australian gold mine Australian coal for domestic	P	M300	Enami price participation	IA	J044	CANADA		
China to buy Australian ore Griffin's Find 2	IA	J079 J092	use and export	P	M301	Karachipampa inaugurated	MW	J057	Obed Marsh	IA	J009
Harbour Lights production			Major W.A. gold find? Wagerup startup	H	M308 M308	Bolivia to reduce antimony exports	TA	J079	Coal terminal expansion	IA	J010
study Increased reserves for Black	IA	J092	Tower Hill gold	H	M308	Catavi contract for Dowa	IA	J080	Cigar Lake details Uranium charges dropped	IA	J026 J027
Hill and Australian			Endeavour gold drilling Pine Creek EIS	H	M308 M308	Smelter expansion Antimony supply problems	IA	J094 J111	Mining research for Manitoba	IA	J028
Occidental	IA	J092	Queensland approves coal			Comibol: gold mining			Federal assistance for	TR.	J028
Beaton's Creek Excelsior prospect	IA	J092 J092	project Collingwood jv farm-in	H	M308 J301	monopoly Tip marketing plans	IA	J112 J160	Destor mine Copper Rand shaft		
Failure of coal talks	IA	J095	Queensland gold agreement	IA	J301	Tin marketing plans Mina Bolivar treatment plant	IA	J160	development	TA	J043
Agreement over iron ore prices	IA	J095	Jubilee drilling for De	IA	J301	Duplex concentrators for South America	IA	J162	Mt. Pleasant nears full capacity	TA	J043
Iron ore: Australian	AM	0000	Mine development at Nevoria	IA	J301	Bolivian strike threat	IA	J196	Teck coal shipped	TA.	J044
producers grasp the nettle	MA	J104	Tasmanian strikes end	IA	J302 J302	1983: a disastrous year Comibol gold project	IA	J204 J211	Key Lake plans purification of water spillage	TA	J045
Central Kalgoorlie drilling	IA	J110	Broken Hill deadlock Price cuts approved	IA	J302 J303	Bolivian strike over	IA	J213	Williams reserves up	IA	J061
Tunax raises funds	IA	J110	Gold interest for Australian	**	1210	Bolivia's Mutum deposits	H	M201 M201	Separate mill for Teck Zarn Lake drilling programme	IA	J061 J061
Record year for Western Australia	IĀ	J110	company Central Kalgoorlie exercises	IA	J319	Karachipampa delay	IA	J231	Gold Creek: further		
Queensland quandary	MM	J121		IA	J319	Bolivia further strike			encouragement Government grant for Mines	IA	J061
Aborigines claim right to Argyle royalties	IA	J126	Mt. Monger visible gold Delta drilling details	IA	J319 J319	Bolivian gold concessions	IA	J232 J251	Gaspe	ER	J062
Go-ahead for coal project	IA	J126 J127		IA	J319	Bolivian treatment plant	H	M309	Substantial increase in Canadian gold output	IA	J062
Mt. Henry irons out problems Jervois Range suspension	IA	J127 J127	Australian optimism Haoma: encouraging results	MW IA	J333 J337	Tin plant for Bolivia? Bolivia: iron and steel	IA	J302	Fall in mineral value for		
Australia improves coking	IA	J127	Alumina production from			complex	IA	J337	Quebec Equity to reduce costs	IA	J062 J062
coal trade with Japan Marvel Loch news	H	M129	Worsley Que River closure date	IA	J338 J338	Huanuni strike continues Karachipampa further delay	IA	J339 J353	Renable expansion	IA	J062
Calypso drilling Gold tailings treatment?	H	M129 M129	Broken Hill dispute	IA	J338	Bolivia's battered economy	N	J417	Alcan awaits Kemano approval Sherritt plans for Ruttan	IA	J063
Hellyer prospects	H	M129	Australian coal: union action threatened	IA	J338	Caracota mine suspension	IA B	J441	New electrolytic zinc plant		
						TO STATE OF THE ST	all	M523	opened in Canada	P	M010

Shear Lake go-ahead	H	W014	Tionaga silver Canadian aluminium	H	M431 M431	Uranium exploration for Japan and China	IA	J353	New impact crushers from France		J316
Kiena gold mill Manitou gold assays	- 11	MO14 MO14	The Noranda view	MW	J365	Mining equipment for China		J372	Lithium plant for Pechiney	IA	
Goulais River gold drilling	H	MO14	Underground development			China buys Australian iron			Optimisation of rotary		
Winston Lake shaft sinking Port Hope labour cutbacks	H	M014 J079	brought forward	MA	J365	Japan seeks cosl price cuts	PAR	J379	drilling for bolting and blasting	D	M498
Help for talc industry	IA		drilling	IA	J370	from China	IA	J441	Gold mining at Salsigne,		
Hemlo talks	IA	J092	Lac's Memlo progress Bell Creek	IA	J370 J370	China coal-Occidental Shell interests	H	M523 M525	France Coal co-operation for India	D	M498
Beryllium prospect for Bearcat and Colt	IA	J092	Antimony mine in New	T.M.		Smell interests		M3 43	and France	IA	J386
JV for Echo Bay and Canuc			Brunswick	IA	J370	COLOMBIA			France: lower coal imports		****
Besources Lucky Jim iv	IA	J092 J092	McBean mine producing Saskatchewan mineral	IA	J370	COLUMBIA			in 1984	1.8	J389
Joe Mann mine	IA	J093	programme	Al	J371	El Cerrejos coal project			0.000		
Port Colbourne reopening	IA	J093 J110	Feasibility study for potash	EA	J371	ahead of schedule but. Colombian plans	MW	J005 J010	GABON		
Bigstone Lake update Pascalis update	IA		mine Key Lake: radioactive	1.84		Joint bauxite project			Gabonese ore for Japan	14	J339
Jackson-Manion diamond			spillage	IA	J371	coma i de red	IA	J044			
drilling Mine spillage to be cleared	IA	J110	Gold companies amalgamate Further Hemlo find	IA	J372 J386	Cerro Matoso delay El Cerrejos productios	IA	J111	GERMANY (EAST)		
WD	IA	J112	Agip details Skukum reserves		J386	begins	IA	J111	Indian iros ore agreement		
Camflo gold find Roberts Bank extension	H	M126 M126	Borealis programe	IA IA	J386 J386	Colombia/Jamaica jv Colombian coal for Mexico	H	M201 J254	with GDR	IA	J128
Manitoba research	H	M126	Lake Shore mines Inco's first gold link	MW	J401	Market for El Cerrejos coal		J254 J271	Lignite mine for G.D.R.	IA	J196
Cigar Lake news	H	M126	Amir acquires E.R. Extension	IA	J406	Colombias coal start-up	H	M309	East Germany boosts output	MIN	J244
Thor Lake beryllium	H	M126	Eden Roc starts work on Hemlo Prospect	IA	J406	Coal production underway at Cerrejon North Block,					
Noranda to spend on Holmer property	IA		Quinsam project update	IA	J406	Colombia	P	M425	GERMANY (WEST)		
Swayze gold belt reserves	IA	J144	Erickson reports on gold	IÁ	J406	Colombias gold	H	M433	Lurgi: new structure	IA	7231
Casa Berardi encouragement Option agreement for	IA	J144	project Monkman debate continues	IA	J408	Colombia to sell off gold	IA	J428	German mime for nuclear		
Queenstake	IA	J144	Squall Lake results	IA	J426	Panerven	4.49	9440	waste storage	IA	3232
Indians make Hemlo land			Mascot reports on Bedley	**	J426	CYPRUS			West German contract for	IA	J355
claim Lincoln Resources update	IA	J144 J144	drilling Quintette/Bullmoose coal	LA	3920	CTPHUS			Metal mining output higher	MW	
Key Lake clay problems	IA	J145	committed	LA	3427	Prospecting in Cyprus	IA	J301	Metal workers dispute to be	**	J441
Bousquet-Cadillac	IA	J160	Alcan seeks water agreement	IA	J428	Cyprus exploration	H	M523	Least sen	14	2441
Sage Creek approval Steel cutbacks hit Balmer	IA	J160 J160	from Quebec Federal boost for Nova	1.00	9420				~		
Mine closure at Goldstream	LA	J161	Scotia	IA	J428	CZECHOSLOVAKIA			GHANA		
Ruttan to close	IA	J161	Swayze reserves up Opemiska strike	IA	J440 J441				Ghasa plans for gold		
McBean April start-up Gomill grant for Pamour	IA	J161 J162	Lac Shortt news	H	M520	Czech lignite	H	J027 M127	industry	IA	J212
Echo Bay-Westsun jv	IA	J177	Falconbridge gold news	H	M520	Czech prospects Lignite mime for	28	MIZI	Ghana gold news	H	M309
Rio Algom places contract	IA	J178	Manitoba smelter? Lac's Hemlo prospect	H	M520 M520	Czechoslovakia	IA	J160	Ghama: bauxite transport difficulties	IA	J321
Brenda Mines reopening	IA	J178	Noranda's Hemlo find	H	M520	Vibrating screens from	M	M267	Ghana gold plans	H	16433
J.K. Smit buys Boyles Drilling	IA	J178	Yukon gold jv	H	M520	Czechoslovakia Czech coal find	н	M311	Drought hits Valco	IA	J407
Orofino progress	IA	J194	Dome gold find	B	M520						
Inco alters Sudbury plans Quebec: smelter discussions	IA	J195 J196	OHILE			DOMINICAN REPUBLI			GREECE		
Coal: Alberta's slurry	2.00	0100	CHILE			DOMINICAN REPOBL					M
solution	MM	J203				Aid for Dominican Republic			Skalistiri takeover Appeal against Skalistiri	H	M017
Additional reserves for La Mine Doyon	IA	J211	Disqualification for Chilean copper leader	IA	J027	exploration Pueblo Viejo feasibility	P	1010	takeover	IA	J094
Goldwinn to increase Hemlo	0.20		Chilean union leader	~		study	ы	M015	Ferrochrome shipments from		
interest	IA	J211	re-elected	IA	J045	Rosario Dominicana to mine			Greece Go-ahead for alumina plant	IA	J111 J172
JV for Gowganda and Homestake	IA	J211	Sharp fall is Chile moly concentrate shipments	IA	J063	Pueblo Viejo sulphide ore		J160	Lavrion recommissioning	IA	J212
Ruttan hopes improve	IA	J212	Toqui mine opening	H	M015	Rosario Dominicana awards			Greek ferro-chrome	H	M197
San Antonio hopes	IA	J212	Swiss interest in Chilean	11	J094	pilot plant contract		J271	Greece: gold projects Greek/U.S.S.R. alumina plant	H	J230 M311
Key Lake uranium mine in production	P	M195	mining venture Mantos Blancos copper	**	3094	Bauxite mine to close	IA	J338	Greek gold	H	M430
Copper Rand	H	M197	contract	IA	J095				Greece considers coal power	IA	J371
Gaspe gets grant	H	M197 M198	El Toqui, Chile, on stream	P	M121 J196	DUBAI			Stations Greece power dispute	IA	J428
Zarn Lake drilling Alcan Kemano project	H	M198	Chilean copper exports down Confident of IMF help	IA.	J196	Dubai output up	1.6	3044	Greek lignite find	AI	J440
B.C. beryllium prospect	H	M198	Swiss invest in Chile	H	M201	Dubar output up	2.00	0044	Geological expenditure Lavrion lead	IA	J440
Tin project progress	IA	J224 J230	Codelco loss finalized	IA	J231	ECVET			PRALIOR LENG	H	M523
Mishi Lake programme Nuinsco encouragement	IA	J230	Mill modifications for Codelco	w	J263	EGYPT			CHATCHALL		
Underground work for			Chilean budget for Gold			Niger uranium for Egypt	IA	J011	GUATEMALA		
Pascalis Kidd Creek drill results	IA	J230 J231	Fields	EA	J270	Warman slurry pumps for			Guatemala uranium		
Tionaga: high silver values	IA	J251	Chile offers copper to Japan More ore at La Escondida	MW	J287 J313	Egypt Egypt seeks French uranium	IA	J011	exploration	H	M521
Windy Craggy underground			Chuquicamata looks ahead	IA	J338	advice	IA	J026			
Rowan property results	IA	J251 J251	Gold mining in Chile	A	M460	French expertise for Egypt	16	M129	GUINEA		
Zinc property talks	IA	J251	Lithium shipments La Escondida project	IA IA	J386 J440	Egypt to export aluminium Egyptian coal	H	J213 M309			
Hunter gold mine	IA	J252	Copper price damages Chilean			Egyptian coal	10.	m309	Diamonds - Aredor update Aredor diamond project,	MA	J036
Lac details cost of Hemlo facilities	IA	J270	export revenue	LA	J441				Guinea, nears start-up	P	M118
Agassiz gold property	IA	J270	La Escondida copper upgraded Copper offered to Japan	п	M521 M521	EIRE			Aredor start up	IA	J213
Chu Chua: Craigmont stays or	AI	J270 J271	Chilean exploration	п	M521						
Lac Shortt start-up schedule Problems at Detour Lake	MM	J281				Planning permission granted for Bula mine	P	M009	GUYANA		
Goldwinn increases interest			OHINA			Irish ideas improve mineral					J063
in Wabikoba Agreement over Red Lake	IA	J285	CHINA			reconnaismanne	A	M050	Guymine exports down Guyana bauxite: sigms of		
properties	IA	J285		IA	J009	Sabina gives up Navan stake Irish exploration	H	J092 M430	improvement	IA	J253
Joint venture agreement on			Dust monitor for China	IA	J011 J028						
Yukon gold property Quintette status report	IA	J285 J286	China in potash talks China uses high-intensity	IA	3028	FIRM AND			HAITI		
Sage Creek coal	H	M310	magnetism	H	M015	FINLAND					
Key Lake problems New circuit for Equity	H	M311 M311	Chinese tungsten corporation Chinese interest in potash	HW	M015 J071	Outokumpu expansion	IA	J010	Brazil and Haiti: energy plan agreement	IA	J011
Quintette - Canada's new	n	morr	China to buy Australian ore	FA	J079	Haamaslahti mine improvement		J027	Brazil/Haiti accord	H	M129
coal mine	A	M316		EA	J095	Outokumpu expansion	H	M127			
Mechanical and thermal methods of oil-shale			Large Japanese screens for China	м	J124	Mustavaara remains open New nickel mine for	IA	J302	HONG KONG		
mining - a review	D	M403	Record output for coal	_		Outokumpu	HW	J364			
Increased exploration for			province	TA.	J127				Krugerrand sales in Hong	YA	J045
Giant Yellowknife Quinterra plans exploration	IA	J301		H	M: 27 M127	FRANCE			Kong	1.61	2042
programme	IA	J301			J145	FRANCE			LILINIO A DIV		
Hoyle Pond progress	AI	J302	Yen loans for Chinese coal			France: job losses		J027	HUNGARY		
Manitoba smelter plans Brenda Mines reopening	IA	J302 J302	projects Occidental and China at odds		J160 J173	Troubles in France	NW	J057	Coal from mine waste with		
Brenda Mines reopening Wabush mines	EA	J302	Antaibo go-shead	ī.Ā	J195	Brazil and France reach uranium accord	IA	J063	Hungarian process	P	M009
Ladner Creek stake for sale	IA	J303	Co-operation for China and		J213	Efficient drilling in French			Industrial minerals production in Hungary	P	M193
Constraints on Canadian mine development	MW	J312		IA IA	J213 J231	Gold mining at Le Bourneix,	M	M095	production in namedly		
Encouragement at Joutel/Casa	-		Antaibo initial agreement	EA	J252	France	D	MEUG			
Berardi	IA	J319	Shell considers coal jv in		1000	Coal accord with France	HW	J072	INDIA		
Glace Bay fire damage Hemlo farm-in for Gold	IA	J320		IA IA	J252 J271	French coal imports French tin prospect	IA	J095 J136	INDIA		
Fields	IA	J337	Japanese smelting technology			French tin prospect Full-face borers from France	H	03.26 MITO	New zinc complex planned	MW	J006
Mann claims Quebec smelter for Kaiser?	IA	J337	for China	IA	J272	French miners strike against			Ilmenite off Indian coast	IA	J026
wurser smutter for amiser?		J337		IA IA	J287 J287	job losses France firms on pit closures	IA	J162	Bulgaria opts out of Kudremukh pact	IA	J028
Quinsam postponement	IA	J337	Chinese iv for Bechtel						auuremund pact		J063
Quinsam postponement Canada: environmental costs	IA	J337 J339	Chinese coal find	H	MOLL	French coal crushers to S.			Parsons Chain in India iv	Al	
Canada: environmental costs Ruttan to continue	IA IA	J339	Chinese coal find Energy options	NW.	J297	French coal crushers to S. Africa	IA	J213	Parsons Chain in India jv U.K. grant	H	M015
Canada: environmental costs	IA		Chinese coal find Energy options Coal agreement for Occidental	HW.		French coal crushers to S. Africa French tin		J213	Parsons Chain in India jv U.K. grant U.S.S.R. co-operation for		M015
Canada: environmental costs Ruttan to continue operations CCR labour talks Dump trucks for Smoky River	IA IA IA IA	J339 J354 J354 J355	Chinese coal find Energy options Coal agreement for Occidental and China Sieger equipment for Chinese	IA	J297 J303	French coal crushers to S. Africa French tin French investment in	H	J213 M107 J288	Parsons Chain in India jv U.K. grant U.S.S.R. co-operation for India Orissa manganese find	H	
Canada: environmental costs Ruttan to continue operations CCR labour talks Dump trucks for Smoky River Wishi Lake gold	IA IA IA IA IA	J339 J354 J354 J355 M430	Chinese coal find Energy options Coal agreement for Occidental and China Sieger equipment for Chinese mines	IA IA	J297 J303 J320	French coal crushers to S. Africa French tin French investment in Argentinian coal? France: nuclear power	H	2208	Parsons Chain in India jv U.K. grant U.S.S.R. co-operation for India Orissa manganese find New steel making technology	H	MO15 MO15 MO15
Canada: environmental costs Ruttan to continue operations CCR labour talks Dump trucks for Smoky River	IA IA IA IA	J339 J354 J354 J355	Chinese coal find Energy options Coal agreement for Occidental and China Sieger equipment for Chinese mines	IA IA	J297 J303	French coal crushers to S. Africa French tin French investment in Argentinian coal?	H	M197	Parsons Chain in India jv U.K. grant U.S.S.R. co-operation for India Orissa manganese find	H	M015

	Rajpura-Dariba lead-zinc		M022	Stage two for coal liquefaction project	IA	J062	Mexico to increase gold output	IA	J195	Tecnomin '84 New lead sinter plant at La	A	M215
	Coal accord with France	MW	J072	Another gold find on Kyushu	H	M015	Control system for Cai Winera de Cananea	IA		Oroya Peru resumes metal sales	A	M246 J232
	India increases coal output India exports more mica	IA	J079 J079 J093	Japanese copper output at record level Japan negotiates Brazilian	IA	J078	Colombian coal for Mexico Penoles resumption	IA	J254	Peruvian alluvial sales	H	M309
	World Bank help for India India rejects Alcan merger	IA IA	J112	price cuts Failure of coal talks	IA	J080 J095	Mexican force majeure Industrial Minera shipments	IA		PHILIPPINES		
	Continued Al imports for India	IA	J127	Agreement over iron ore	IA	J095	Post and the state of the state	IA	J371	Philippine prospects	N	J001
	Indian iron ore agreement with GDM	IA	J128	North Korea seeks Japanese technology	IA	J095	MOROCCO			Sipalay to reopen	IA	J027
	Indian iron ore for Japan Indian ilmenite find	H	M127 M127	Ariake mine future unsure	IA	J111	Moroccan lead sales	TA	J111	Sipalay suspension Production suspension at	IA	
	Binar diamond search Andhra Pradesh coal find	IA	J144 J145	Contrasting patterns for copper and aluminium	MW	J119	Morocco to increase coal imports		J147	Batong Buhay Exploration ban lifted	IA	J094
	Eudremuch shutdown Balco wiss power assurance	IA	J146 J146	Large Japanese screens for China	м	J124		1.00	0141	Philippines copper output down	IA	J126
	Trade agreement for India and Algeria	IA	J161	Sumitomo follows cutback trend	IA	J127	MOZAMBIQUE			Government applies restrictions	IA	J126
	Japan buys more Indian ore India seeks seabed mining	IA	J161	Japanese gallium for U.S. Super-tough ceramic for	IA	J127	African pragmatism	N	J201	Ferrochrome production in the Philippines	p	M123
	area Indian merger setback	IA	J179 J189	tools? Japanese-Dominican survey	H	M127	Zaire to export through Mozambique	IA	J271	Family dispute over Philippines copper		
	Iran demands Kudremukh funds	IA	J196	Japanese copper output down Autumn start for Hishikari	IA	J146 J156	NAMIBIA			smelter Cu concentrates - danger	MA	J155
	Coal equipment for India Russian sales to India	IA	J213 J213	Japan reports gallium imports	IA	J161				signals 100,000 hours of generation	N A	J169 M261
	Chasnalla new life Diamond bourse for India	IA	J253 J254	Japan buys more Indian ore Coal silo marketed	IA	J161 J162	Mining secrets emerge Matchless employees		J005	Philippines coal emergency Sipalay/Nonoc funding	Al	J231
	Aluminium imports New Indian coal belt	H	M311 M311	Cu concentrates - danger signals	N	J169	retrenched Namibia: mining industry	IA		negotiations Semirara coal study for	IA	J252
	Reconstruction of the Jharia coalfield, India	A	M349	Ariake reopening Coking coal talks for	IA	J196	remains in the doldrums	Ma	1399	Dames & Moore Marinduque reopening	IA	J270 J271
	Indian budget & mining Authorization for MMTC	H	J293 J320	Australia and Japan Japanese coal output	IA	J196 J212	NEW ZEALAND			Marinduque to restart Nonoc Pasar spillage	WW	J298 J354
	Coal slurry project shelved Terez wiss Indian order	IA	J321 J339	Copper imports jump Toyoba: encouraging find	IA	J225 J230	Gold mine revival		J006	Pasar shipments to halt in July	IA	J407
	Indian mica for U.S.S.R. Gold mines for India	IA	J339 J353	Toyoha: encouraging find Wind of change in the copper industry	WW	J246	Re-evaluation of New Zealand gold mine	P	MO11	Rise in Philippine mineral	IA	J427
	More Indian copper	IA	J354 J355	Japanese smelting technology for China		J272	Monowai proposal New Zealand resource	IA	J177	Semirara coal study	H	M525
	India ends barytes duty Indian diamond bourse	H	M433 M433	Chile offers copper to Japan Exploration and development		J287	N.Z. gold prospect	N	J261 M308	POLAND		
	Indian copper Offshore gold	H	M433	at the Hishikari gold mine, Japan	P	M303	Japan seeks coal price cuts from New Zealand	IA	J441		IA	J010
	Alumina exports planned Coal co-operation for India	PAR	J381	Gold find at Japanese mine	IA	J301				Polish copper Polish zinc finds	H	M197
	and France Aluminium stockpile for		J386	Price cuts approved Japanese copper imports down	IA	J303 J320	NIGER			Polish coal - recent news on	IA	J287 M303
	India India to develop lead-zinc		J387	Japanese non-ferrous outlook Gabonese ore for Japan	IA	J338 J339	Niger uranium for Egypt Niger uranium	IA	J011 W129	preparation and quality Polish order for PHB		
	mine India relaxes iron ore		J406	Japanese coal imports up Uranium exploration for	IA	J339	New uranium markets for Niger?	IA	J372	Weserhutte Gasification of brown coal	IA	J372
	ruling Aveling to supply India with	IA	J409	Japan and China Japanese investment in coal	IA	J353			0012	in Poland	P	M516
	equipment Indian coal imports	IA IA	J428 J441	project rejected Japanese gold find	H	J355 M433	NIGERIA			PORTUGAL		
		H	M525	Record high for Japanese Al imports	IA	J372	Uranium prospecting in Nigeria	TA	J211	Updates on Neves-Corvo Cu-Zn		
	INDONESIA			Agreement for Kobe Steel and Allis-Chalmers	IA	J441	NIGOTIA	in	0211	project	P	M429
		IA	J028	Japan seeks coal price cuts	IA	J441	NORWAY			ROMANIA		
	Indonesian coal for Japan Coal washery for Ombilin	IA IA	J111 J112	Plan for Japan and Australia Japanese gold find	IA	J442 M525	Norwegian viewpoint	MW	J105 J213	Romania to increase coal		
	Indonesian coal find Ertsberg update	H	M)27 J177	oapanese gozu zzau	-		Minpro-Mozley agreement Boost for Norwegian refinery		J387	output	IA	J407
	Taiwan to mine coal in	IA	J195	JORDAN			OMAN			SAUDI ARABIA		
	Apron feeders for Sumatra Indonesia rising to the	IA	J272	Jordanian potash	IA	J354				Saudi exploration for		
	challenge Bintan boost	H IA	J329 J337	KENYA			Oman copper search Portable crusher for		J043	Boliden Plant for evaluation and	A	J043
	Taiwan study Indonesian coal	H	M433	Kenya issues prospecting			limestone in Oman Schar so good	MA	M095 J121	Plant for evaluation and test work in Saudi Arabia	м	J077
	IRAN			permission Kenya to study geothermal	IA	J285	Sohar output improves Oman exploration	H	J195 N201	Mahd adh Dhahab tenders Arabian mining potential	IA	J093 J133
	Production soon from Sar			potential	IA	1406	DACIFIC ICI ANDC			Saudi exploration Saudi aluminium plans	H	M201 J301
	Cheshnen	IA H	J044 M127	KODEA (NODEN)			PACIFIC ISLANDS			Saudi shelves aluminium plant	н	M525
	Sweden-Iran mine contracts Iran demands Eudremukh Tunds		M127	KOREA (NORTH)			Ok Tedi delay Fiji gold tailings study	H	J026 M017	Al Masane	A	M538
	ttack	IA	J196	North Korea seeks Japanese technology		J095	P.N.G. grants Ok Tedi dam approval	IA	J078	SIERRA LEONE		
	ISRAEL			Iron ore for North Korea N. Korea seeks smelting	IA	J095	Ok Tedi landslide Porgera extension	HIA	M129 J144	U.N. funds for Sierra Leone	н	W129
	Dead Sea contract	TA	J161	technology	H	M201	Tailings projects in Fiji Gold search in Solomon	IA	J177		_	
				KOREA (SOUTH)			Islands Ball mill for Bougainville	IA	J194 J212	SOUTH AFRICA		
	ITALY			Power plant contract for			Ok Tedi dam approved Bougainville meets the	H	M199	Death toll rises	IA	J010
		IA H	J079 W197	Kukje Coal-fired power for South		J011	challenge Ok Tedi gold allocated	IA	J223 J231	Far East Rand tailings project takes shape	MM	J021
	Italian pyrites/sulphuris		N427	Korea	IA	J406	Ok Tedi seeks loan One year delay for Ok Tedi	IA	J319	Krugerrand sales in 1983 Delkor filter ordered	IA	J028
	acta plant capacitos			LIBERIA			copper	H	J332 M433	Doornkop new shaft Rietspruit strike	IA	J043 J045
	IVORY COAST			Liberia agreement for			Bougainville expansion	H	M433	Coal price cut for SA producers	IA	J063
			J251	Bethlebem	IA	J441	PAKISTAN			Confusing the issue SA gold output in 1983	IA	J069 J079
	Ivory Coast gold	н	M521	MALAYSIA			High-safety mine haulage	16	J248	Krugerrand sales surge in 1983	16W	J089
	JAMAICA					J027	Phosphate plant ordered Interest in Saindak?	IA	J272 M311	Western Deeps shaft on schedule	IA	J110
١	Joint bauxite project			MMC gold prospect		J028 J078	New chromite proposals	IA	J422 J426	Cyclone affects mine and rail operations	IA	J111
	Jamaica: bauxite output down		J044 J110	Malaysia lode mining consortium considered	IA	J079	Kakul phosphate, Pakistan;	P	M515	S.A. coal sales expected to	IA	J111
		IA	J146	Smuggling control Peninsula's exports up	IA	J212 J213				Mine owners blamed for Hlobane disaster	MM	J119
	Barter agreement for Jamaica and Yugoslavia		J178	Export controls hit Walaysia's gravel pump			PERU			January gold output S.A. iron ore inquiry	IA	J127 J128
- 1	Bauxite levy	IA	M201 J302	sector Peninsular tim exports up		J280 J355		IA	J010	Fifth filter for S.A.	16	M171
			J388 N523	KL tin mart approved Kuala Lumpur market approved	S	J383 J389	Peruvian talks adjourned Minpeco force majeure on	IA	J027	Shaft reopening for Cons.	TA	J145
				Tin mining workforce cut by a third		J399	Centromin declares force		J127	S.A. platinum coin ruled out Merriespruit uranium	IA	J161
	JAPAN			March tin output	IA	J408 J408	majeure Ilo refinery: Govt. gives		J147	shutdown Brockwell reopening	IA	J178 J178
	Refined copper imports to						Alluvial gold in Peru	IA IA	J147 J160	South Africa: a word of warning	N/W	J188
	rise by 70% Japanese coal mine disaster		J010 J045	MEXICO			Peruvian silver sales Tintaya sale planned	IA IA	J161 J178	Shaking the earth S.A. gold	NW.	J189 J195
	Japanese nickel sales show increase	IA	J045	Mexican expectations La Caridad force majeure	IA	J027 J178		IA IA	J211 J213	French coal crushers to S. Africa		J213

Budget increases	MF	J219	Thailand: tin exports fall	IA	J010	Anglesey aluminium	H	M311	Hampton/Centennial jv	H	M197 M230
Funding and finance	N	J221 J231	Chinese interest in potash Government approves offshore	NW	J071	Portal construction in weak water-logged ground	A	M376	St. Joe's Balmat mines Examining title to	A	E230
S.A. gold export earnings Raiseboring contract	IA	3231	minex programme	NW	J071	The measurement of coal			unpatented mining		
completed	IA	J254	Rocksalt project plans	IA	J126	mining subsidence - an example		M379	claims in the U.S. Alaskan gold mine leases for	A	M251
Gencor coal for Volkswagen Mineral production	IA	J254	Tin mines for sale	IA	J127	Westfalia Luenen	-		Barrion Resources	IA	J230
statistics	MIN	J265	Thai lignite mine	H	M127	restructuring Repairs for refinery	EA.	J303 J320	GSA plans	IA	J232 J252
Western Deep to convert	7.4	J271	Thailand tin tailings survey Thai tantalum project	H	M127	Approval for lignite project		J353	Mayden Hill agreement Sonora to bring mime on	IA	J252
uranium plant? Goodhope Colliery provides	1M	3211	Problems for Thai potash			Telemetry system for salt			STREET	IA	J253
more export tonnage for	F		project Thai tim slow down	IA	J145 J145	Costain: mining acquisition	EA	J355 J355	Silver sales reconsidered Synfuels progress	NW	J264 J265
Fire at Rustenburg refinery	IA	J280 J286	Thailand tries to stem tim	4.00		Hemerdon refusal	H	N430	Terramar acquires additional		
East Rand mine deaths	IA	J286	smuggling	IA	J162	NCB contract for Courtaulds	AL	J389	Land	I.A.	3370
S.A. coal price rise Modderfontein shaft	IA	J287	Thailand halts tin mining licences	IA	J179	Joy acquires Orion Breakdown in coal talks	TA	J408	Freeport Minerals exploration	EA.	2270
reopening	H	M310	Thai potash	IA	J194	NCB buys coke for U.S. expor	t		McLaughlin approval	IA	J271
Beisa: another casualty of			Thai zinc refinery Thai police seize tin	IA	J211 J232	Wheal Concord operations	EA	J428	Pinto Valley reopening Approval for silver disposal	IA IA	J271 J271
the uranium market S.A. gold	IA	J296 J302	Thailand gold plans	IA	J251	sold	ER	J428	Court action against		
Pay settlement in South			Mae Moh aid	IA	J252	Warren Springs 25 years on Wheal Pendarves reserves	RM.	J436	Signstylae	IA	J271
Africa	IA	J302	Scheelite project Thailand: geophysical survey	IA	J252 J285	outlook	FA	J441	Quartz Will indefinite postponement	TA	J285
S.A. mineral growth areas Krugerrand sales increase	IA	J320 J320	Go-ahead for potash project	IA	J285	Dinorwig power project,			Alaska gold find	H	M310
South African output to			Thai efforts to boost industry	IA	J286	Wales, inaugurated Mine ventilation congress,	P	M517	Reopening of precious metal site	н	M310
remain high Worcester gold mine back as	MA	J333	Thai tis controls planned	H	M311	U.K.	A	M547	International Coal Show	A	M331
producer	IA	J338	World Bank funding for Mae		****				Mechanical and thermal		
Revival of interest in	1676	J348	Noh Tin seized	IA	J302 J355	U.S.A.			methods of oil-shale mining - a review	D	M403
Southern Africa April gold	IA	J354	Thai tantalum project	IA	J407	California: geothermal			mining - a review Optimism at U.S. coal show	100	J296
New rockdrill improves			Zinc refinery update	IA	J407	resource	EA	J009	Terramar drilling programme Tantalum pilot plant	IA IA	J301 J301
Arnot Collieries buys Unit	IA	J371	Problems for potash project Thailand tin exports	IA	J407 J428	Standard Metals in claims		1000	Glover reopening	FA	J301
Rig hauler	IA	J372	Australian proposal for			Coal mine fate sealed	IA IA	J009 J010	Congress considers new		
Joint venture development			Thailand	IA	J440 J442	Republic mine agreement	EA	J010	stockpile proposals Herculaneum smelter to close	MW	J314 J320
for Escom contracts S.A. wage rise	IA	J379 J388	Thailand lifts export ban Thai geophysical survey	H	M525	Veta Grande sale	IA	J010	GaW sells Jersey Miniere		0.000
Modder East for Hemgold?	IA	J389	That Bookeystons and toy			Synfuels fade-out New coal-burning boiler to	N	J017	Zinc	IA	J320
New Transvaal prospects	MA	J400	TOGO			eliminate SO2 emissions	MK	J020	Coal for power generation Court rules on thickeners	IA IA	J320
Krugerrand sales down Uneconomic gold production	IA	J409 J420	. 500			Waters Sunset target	IA	J026 J026	Reid mine: further		
S.A. gold output up	IA	J427	Togo: minerals plan	IA	J230	Drilling at Sunnyside Dee mine moves ahead	IA	J026	encouragement	EA	J337
Gold mines dispute	IA	J427	Togo mineral programme	H	M521	Montoro gold project	IA	J027	Veta Grande mine study Relief Canvon	EA	J337 J337
S.A. pay offer rejected Underground development at	IA	J441				Stocks of iron ore in U.S.	IA	J027	Buckhorn on stream	FA	J338
Finsch, South Africa	P	M514	TUNISIA			Rise is copper output Aluminium smelter rate	IA	J027 J027	Phelps Dodge denies Morenci		
			I for Tuninia	IA	J092	Tantalum fraud charge	IA	J028	shutdown plan Phelps Dodge reopens Ajo	IA	J338
SPAIN			Loan for Tunisia Tunisian loan	H	M198	Hampton-Centennial reserves FMC gold-silver discovery	IA	3983	Fortitude mine	EA	J353
						Montana Tunnels start-up	IA	J043	Apex mine on schedule	EA	J353
A look at the Spanish potasi	1	M105	TURKEY			planned	IA	J043	U.S. aluminium output Progress at Gold Quarry,	IA	J354
industry La Infanta sulphides	D	M430	TORRE			Clayton to re-open U.S. aluminium output plans	IA EA	J944 J944	Nevada, U.S.A.	P	M426
1985 start-up for wolfram	-		Safety lamps ordered for			Severe setbacks for the U.S.	2.00.	2044	Power generation by gas- from-coal is U.S.A.	p	16427
mine	IA	J370	Turkey	H	J063 M015	nuclear industry	MA	J056	Montana Tunnels study	II .	M427
Wolfram mine Spain to boost zinc output	IA	J406 J407	Turkish lignite mine Turkey orders mining			Cyprus Bagdad cutback Refinery reopening delayed	TA	J963 J063	Portis gold news	11	M431
Rio Tinto Minera orders			equipment	IA	J147	New molybdenum producer is	***	5003	The mise at Goat Hill	H	M431
trucks	AZ	J442	Etibank in copper projects Cayeli progress	IA	J177 J211	Idaho, U.S.A.	P	1008	Asarco submits mise proposal	TA.	M434 J370
			cayett progress								
			Eximbank support for loan	IA		Summer start for Sumich	H	8014	Programme for Californian		
SRI LANKA			Eximbank support for loan Turkey's lignite development		J231	Breakwater progress	H	MULT 4 MULT 4	Programme for Californian gold project	IA	J370
		*****	plans queried	MW	J231 J244	Breakwater progress Valdez Creek mining Swedish interest in U.S.	H	MO14 MO14	gold project Record drill rig performance	IA IA	J370 J371
Ilmenite plant for Sri Lanks	AI a	J178	plans queried Turkish copper		J231	Breakwater progress Valdez Creek mining Swedish interest in U.S. coal mine	H	MO14	gold project  Becord drill rig performance  Dominion awards coal terminal  contract	TA	J371 J371
Ilmenite plant for Sri Lanks Mineral exploration in Sri Lanks	I I A	M464	plans queried	MW H	J231 J244 M311	Breakwater progress Valdez Creek mining Swedish interest in U.S.	H	MU14 MU14	gold project Record drill rig performance Dominion awards coal terminal contract JV for Victorville property	IA IA	J371 J371 J386
Ilmenite plant for Sri Lanks Mineral exploration in Sri	A IA		plans queried Turkish copper Cayeli update	MW H	J231 J244 M311	Breakwater progress Valdez Creek mining Swedish interest in U.S. coal mine Sunnyside mime: Little Mary vein MERCO/Mother Lode agreement	H	MO14 MO14	gold project Becord drill rig performance Dominion awards coal terminal contract JV for Victorville property Offshore research	TA TA TA	J371 J371 J386 J386
Ilmenite plant for Sri Lank Mineral exploration in Sri Lanka Sri Lanka copper find	A	M464	plans queried Turkish copper	MW H H	J231 J244 M311 M430	Breakwater progress Valdez Creek mining Swedish interest in U.S. coal mine Sunnyside mine: Little Mary vein NERCO/Mother Lode agreement Asbestos company sues	H H H IA	M014 M014 M014 J078 J878	gold project  Becord drill rig performance  Dominion awards coal terminal contract  JV for Victorville property  Offshore research  Stockpile plans  UMC Resources settlement	IA IA IA IA IA	J371 J386 J386 J389 J389
Ilmenite plant for Sri Lanks Mineral exploration in Sri Lanks	A	M464	plans queried Turkish copper Cayeli update  UGANDA  Revised recovery programme	MW H	J231 J244 M311 M430	Breakwater progress Valdez Creek mining Swedish interest im U.S. coal mine Sunnyside mime: Little Mary vein NERCO/Mother Lode agreement Asbestos company sues federal government	H	M014 M014 M014 J078 J078 J060	gold project Econd drill rig performance Dominion awards coal terminal contract JV for Victorville property Offshore research Stockpile plans UNC Resources settlement Pittatom sigms coal coatract	IA IA IA IA IA IA	J371 J386 J386 J389 J389 J389
Ilmenite plant for Sri Lanks Mineral exploration in Sri Lanka Sri Lanka copper find SUDAN	A	M464	plans queried Turkish copper Cayeli update  UGANDA  Revised recovery programme Kilembe copper mine news	MW H	J231 J244 M311 M430 J037 M015	Breakwater progress Valdez Creek mining Swedish interest in U.S. coal mine Sunnyside mine: Little Mary West of the Mary West of the Mary West of the Mary Mary of the Mary of the Mary Mary of the Mary of the Mary of the federal government Asarco completed Hayden project	H H IA IA IA	M014 M014 M014 J078 J078 J080 J088	gold project Record drill rig performance Dominion awards coal terminal contract JV for Victorville property Offshore research Stockpile plans UNC Resources settlement Pittaton sigms coal contract Lead strike	IA IA IA IA IA	J371 J371 J386 J386 J389 J389 J389 J408 J408
Ilmenite plant for Sri Lank Mineral exploration in Sri Lanks Sri Lanks copper find SUDAN Development to start at	A	M464 J386	plans queried Turkish copper Cayeli update  UGANDA  Revised recovery programme	MW H	J231 J244 M311 M430	Breakwater progress Valdez Creek mining Swedish interest in U.S. coal mine: Little Mary NERCO/Mother Lode agreement Asbentos company uses federal government Assarco completed Hayden Corpus Christi restart	H H IA IA IA	M014 M014 J078 J078 J080 J088 J088	gold project good	IA IA IA IA IA IA	J371 J386 J386 J389 J389 J389 J408
Ilmenite plant for Sri Lank Mineral exploration in Sri Lanka Sri Lanka copper find SUDAN Development to start at Gebeit	NA IV	M464 J386 J036	plans queried Turkish copper Cayell update  UGANDA  Revised recovery programme filembe copper mine news Encouraging progress	MW H	J231 J244 M311 M430 J037 M015	Breakwater progress Valdez Creek mining Swedish interest in U.S. coal mine Sunnyside mine: Little Mary MERCO/Mother Lode agreement Asbestom company suem federal government Assarco completed Hayden progress Christian Corpus Christian Cartat Stock Market Market Market U.S. exports down	H H IA IA IA	M014 M014 M014 J078 J078 J080 J088	gold project  Record drill rig performance Dominion awards coal terminal contract JV for Victorville property Offshore research Stockpile plans WKC Resources settlement UKC Resources settlement Lend strike Trade communication vote MS wins U.S. orders U.S. Trade Commission	TA TA TA TA TA TA TA	J371 J371 J386 J386 J389 J389 J389 J408 J408
Ilmenite plant for Sri Lank Mineral exploration in Sri Lanka Sri Lanka copper find  SUDAN  Development to start at Gebeit Drills for exploration in Sudan	A	M464 J386	plans queried Turkish copper Cayeli update  UGANDA  Revised recovery programme Kilembe copper mine news	MW H	J231 J244 M311 M430 J037 M015	Breakwater progress Valdez Creek mining Swedish interest in U.S. Sunsyaide mine: Little Mary Vein MERCO/Mother Lode agreement Asbestos company muse Assurco company muse Assurco completed Hayden project Corpus Christi restart Stockpile proposals Coal handling system	II IA IA IA IA IA	M014 M014 M014 J078 J078 J080 J080 J088 J083 J094 J094 J095	gold project good	TA TA TA TA TA TA TA	J371 J371 J386 J386 J389 J389 J389 J408 J408
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Ilmenite plant for Sri Lanks Mineral exploration in Sri Lanks Sri Lanks copper find  SUDAN  Development to start at Gebeit Dri Sudan Sudane gold find for Greenwich Resources Sudan gold Greenwich Sudan interests Sudan gold More Sudan gold Surinam strike over Royal fill feasibility study Gold in Surinam Surinam shaukite  SWEDEN  Boart and Stromes in marketing agreement The research mine New hydraulic rock drills  SWIZERLAND  Swins interest in Chilean mining venture  Taiwan  Taiwan to mine coal in Indonesia? Copport Taipower Jy for Alcon and Taiwan Taiwan to mine on Taiwan Taiwan to mine coal in Indonesia?  Top Top Taipower Jy for Alcon and Taiwan Taiwan taudy Indonesian coal	M IA H H H H H IA A M M IA	J036 J036 M099 J126 M198 J251 J251 J177 M310 M431 J177 M309 J112 M433 J112 M433 J112 M433	plans queried Turkish copper Cayell update  UGANDA  Revised recovery programme Elembe copper mise news Mise application denied U.K. prospects U.K. prospects Flatinum Noble sales Geevor tis grant Platinum Noble sales Geevor tis grant Platinum Noble sales Geological study contract Second face for Wistow Corolish exploration permit Samelter modernization Reclamation and re-cycling NEI contract from Blue Circle U.K. to reduce uranium stockpile Mining subnidence Mining subnidence Mining subnidence Mining subnidence Mining subnidence Circle U.K. to reduce uranium stockpile Mining subnidence Mining subnidence Cotain acquires Land and Jane Costain acquires Land and Mining subnidence Mining strike affects Minera strike affects Minera strike affects Minera strike affects APCOM '84 LPG storage scheme in U.K. Hemerdon planning permission denied key resource Ly prospers	MW H MW IAA MW I	J231 J234 J331 J331 J337 J337 J337 J337 J3435 J3245 J3231 J3245	Breakwater progress Valdez Creek mining Swedish interest in U.S. coal mine Mary Vein MERCO/Mother Lode agreement Asbestos company muse federal government Aspestos company muse federal government Swedish interest Stockpile proposals U.S. export down Coppus Christi restart Stockpile proposals U.S. export down Copper conflict deepens Mi-Cal plans demonstration Plant Hew quarry in sight for Mosement Mi-Cal plans demonstration Survey and the second Survey Swedish Interest Interest Interest Mi-Cal plans demonstration Dissembly Mi-Cal plans demonstration Flower of the Swedish Mi-Cal plans demonstration Day Survey Interest Mi-Cal plans demonstration Day Swedish Mi-Cal plans demonstration Day Swedish Mi-Cal plans demonstration Great Planish project Mi-Laughlin gold project Mi-Mi-Mineral Mineral M	H I I A A A A A A A A A A A A A A A A A	MO14 MO14 MO14 MO14 MO14 MO14 MO14 MO14	gold project gold project good drill rig performance Dominion swards coal terminal y for Victorville properly Offshore research Stockpile plans UNC Resources settlement Pittaton signs coal contract Trade commission vote Swins U.S. orders U.S. Trade Commission vote Swins U.S. orders U.S. Trade Commission vote Swins U.S. orders U.S. Trade Commission vote Ravource copper import factor of the commission of th	IA I	J3711 J386 J386 J389 J389 J389 J389 J408 J408 J408 J408 J408 J408 J408 J408
Ilmenite plant for Sri Lanks Mineral exploration in Sri Lanks Sri Lanks copper find  SUDAN  Development to start at Information in Sudans Sudans exploration in Sudans Sudans gold find for Greenwich Sudan gold Greenwich Sudan start excutagement Sudan gold More Sudan gold Surinam strike over Royal Hill feasibility study Gold in Surinam Surinam strike over Royal Hill feasibility study Gold in Surinam Surinam strike SWEDEN  Boart and Stromnes in marketing agreement The research mine New hydraulic rock drills  SWITZERLAND  Swins interest in Chilean mining venture  TAIWAN  Taiwan to mine coal in Indonesia?  Copper for Taipower Jy for Alcoa and Taiwan Taiwan to sine coal in Haishan mine blast	MW M IA HH H H H IA A M M IA	J036 J036 M099 J126 M198 J251 J251 J063 J177 M300 M431 J177 M309 J112 M335 J112 M35 M35 M35 M35 M35 M35 M35 M35 M35 M35	plans queried Turkish copper Cayell update  UGANDA  Bevined recovery programme Elembe copper mine news Elembe copper mine news Elembe copper mine news Encouraging progress  U.K.  Aveling Barford acquired Belvoir coal project go- mined to the complete go- mined to the coal project go- mined to the coal go- m	MW HI A MW IAA MW IAA MW IAA	J231 J234 J331 J344 J311 J311 J311 J311 J311 J3	Breakwater progress Valdez Creek mining Swedish interest in U.S. Swedish interest in U.S. Swedish interest in U.S. Sunsymide mine: Little Mary Vein MERCO/Mother Lode agreement Asbestos company muse Assurco company muse Assurco completed Hayden project Corpus Christirestart Stockpile proposals Coal handling system Copper conflict deepens Hi-Cal plans demonstration Jiant How Quality and the stockpile proposals Swedier plans demonstration Swedier plans demonstration Swedier plans demonstration Swedier plans melved Seatile mine agreement Survey information sought Smelter plan shelved Seatile mine agreement Survey information sought Swedier plan shelved Seatile mine agreement Survey information sought Swedier plans project McLaughlin gold project Underground mining at Clayton of the state of the state of the state Nonfuel mineral output rises Inspiration cutback Gold Quarry design contract Synfuels withdrawal Clayton production resumes Merger for Steams-Moger and Catalytic Inc. McLayton production resumes Merger for Steams-Moger and Catalytic Inc. McLayton production resumes Sacaton closure U.S. aluminium down American Coal: export Montana Tunnels work for Kilborn Progress at Montana, U.S.A., gold project McLaughlin gold gold gold gold gold gold gold gold	H I I I I I I I I I I I I I I I I I I I	MO14 MO14 MO14 MO14 MO14 MO14 MO14 MO14	gold project gold project good drill rig performance Dominion swards coal terminal JV for Victorville property Offshore research Stockpile plans UNC Resources settlement U.S. Trade Commission resutritions import resutritions import resutritions property Great Plains project Expenditure on Bopes mine Addit Persources of Manch Stockpile alles continue Hint calle for metals Expenditure on Bopes mine Addit and the settlement power Stockpile sales continue Hint calle for metals Golf med her not for set Whate The settlement power Waldez Creek drill results Lincoln reports on Buffalo TY Calley TY Calley TY Calley TY Calley TY Calley U.S.S.R. U.S.S.R. strong iron ore demand Bussies in iron ore consumption Pinto 'Walley mice recogna ReLaughin gold approval  U.S.S.R. Indian mica for U.S.S.R. Bell managenee for U.S.S.R. Bell managenee for U.S.S.R. Soviet zinc order for U.S.S.R. inse developments Soviet zinc order for Communist gold sales fall U.S.S.R. mine developments Soviet zinc order for Communist gold sales fall U.S.S.R. inse developments Soviet mines  VENEZUELA  VENEZUELA	IA I	J3711 J386 J386 J389 J389 J389 J389 J408 J408 J408 J408 J408 J408 J408 J408
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Ilmenite plant for Sri Lanks Mineral exploration in Sri Lanks Sri Lanks copper find  SUDAN  Development to start at Gebeit Dri Sudan Sudanes gold find for Greenwich Resources Sudan gold Greenwich Sudan scheer encouragemen Sudan gold More Sudan gold More Sudan gold More Sudan gold More Sudan gold Surinam strike over Royal fill feasibility study Gold in Surinam Surinam strike over Royal fill feasibility study Gold in Surinam Surinam shaukite  SWEDEN  Boart and Stromnes in marketing agreement The research mine New hydraulic rock drills  SWIZERLAND  Swins interest in Chilean mining venture  TAIWAN  Taiwan to mine coal in Indonesia? Copposition of the coal in Indonesia?  Taiwan to mine coal in Indonesia?  Taiwan to mine coal in Indonesia?  Taiwan to mine coal in Lindonesia?	MW M IA HH H H H IA A M M IA	J036 J036 M099 J126 M198 J251 J251 J063 J177 M300 M431 J177 M309 J112 M335 J112 M35 M35 M35 M35 M35 M35 M35 M35 M35 M35	plans queried Turkish copper Cayell update  UGANDA  Revised recovery programme Ellembe copper mise news Encouraging progress  U.K.  Aveling Barford acquired Belvoir coal project go- Belvoir gold u.K. coal liquefaction  Geological study contract Second face for Wistow Acid drops  KGB coalract for Simonacco  KGB coatract for Simonacco  Wistoration at udd  Wistoration at Geological  Marine with gold gold gold gold  Marine gold gold gold  Marine gold  Coatna acquires Land and  Marine gold gold  Marine gold gold  Marine gold gold  Marine gold gold  Marine gold  Coatna gold  Marine gold  Marine gold  Coatna gold  Marine gold  Marine gold  Marine gold  Coatna gold  Coatna gold  Coatna gold  Marine go	MW HI A MW IAA MW IAA MW IAA	J231 J234 J331 J344 J311 J3435 J037 H015 J435 J011 J020 J026 J026 J026 J026 J026 J027 H017 J080 J17 J080 J17 J127 J128 J172 J128 J172 J146 J162 J162 J162 J172 J178 J179 J180 J172 J180 J180 J180 J180 J180 J180 J180 J180	Breakwater progress Valdez Creek mining Swedish interest in U.S. coal mine: Sumny and the second since of	H I I I I I I I I I I I I I I I I I I I	M014 M014 M014 M014 M014 M014 M014 M014	gold project gold project good drill rig performance Dominion swarfs coal terminal JV for Victorville property Offshore research Stockpile plans UNC Resources settlement UNC Resources coal contract Lend strike Swins U.S. orders U.S. Trade Commission vote Swins U.S. orders U.S. Trade Commission vote Resource Import resource Import resource Import resource Import resource Import resource on Bupor Stockpile sales coatinue Hint calls for metals Quif smelter not for sale Golf smelter not for sale Facility of the Commission Unit of the United State United State United State U.S.S.R. U.S.S.R. Indian sica for U.S.S.R. Bunnian sales to India Communiati gold saperts Indian sica for U.S.S.R. Soviet ziac order for Communiati gold sales fall U.S.S.R. mise developments Strata control aspects in Soviet mines VENEZUELA Venezuela: Fe and Al output Gold snuggling in Venezuela	IR I	J3711 J386 J386 J389 J389 J389 J389 J408 J408 J408 J408 J408 J408 J408 J408
Ilmenite plant for Sri Lanks Mineral exploration in Sri Lanks Sri Lanks copper find  SUDAN  Development to start at Gebeit Drills for exploration in Sudans gold find for Sudans gold find for Sudans gold find for Sudans gold Me gold find for Sudans for find find for find find for find find find find find find find find	MW M IA H H H H H H H H H H H H H H H H H H	J036 J036 M099 J128 M198 J251 J270 M310 M431 J270 M431 J177 M309 M433 J177 J335 J112 J112 J112 J112 J112 J112 J112 J11	plans queried Turkish copper Cayell update  UGANDA  Revised recovery programme Kilembe copper mise news Encouraging progress  U.K.  Aveling Barford acquired Belvoir coal project gonish drilling achievement Mine application denied 10.K. coal liquefaction Geevor tin grant Platinum Roble males (Geological study coarract For Simonacco Mining mubsidence study Cornish exploration permit Society of the Cornish exploration and re-cycling non-ferrous metals NHI contract from Blue Cornish exploration at Wheal Society of the Cornish exploration at Wheal Society of the Coal Consumption the pithosa Distribution of the Coal Consumption the pithosa Distribution of the Coal Consumption the pithosa Distribution of Power Miners' strike affects BSC Go-ahead for Belvoir APCOM '04 Index Programme for Miners' strike affects BSC Co-ahead for Belvoir APCOM '04 Index Programme for Coal dispute SMC Ltd.  Computer control system for NHI sequires DMC Ltd.  Computer control system for Coal dispute	MW HI MW AAAAMW AAAAMW AAAAAMW AAAAAAMW AAAAAAMW AAAAAAAA	J231 J234 J334 J331 J344 J311 J3435 J345 J34	Breakwater progress Valdez Creek mining Swedish interest in U.S. Swedish interest in	II IA I	MO14 MO14 MO14 MO14 MO14 MO14 MO14 MO14	gold project gold project good drill rig performance Dominion swards coal terminal JV for Victorville property Offshore research Stockpile plans UNC Resources estlement UNC Resources estlement Lend strike Lend strike Brise V.S. orders U.S. Trade Commission vote Swins U.S. orders U.S. Trade Commission favours copper import Echo Bay to explore Congress property Great Plains project Expenditure on Ropes mise Additional reserves for Raob Stockpile sales continue Mist calls for metals Gulf smelter not for and Pacific Northwest power Valdec Creek drill results Liscola reports on Buffalo Valley may be consumption Finto Valley mise recommunition Finto Valley mise recommunition Finto Valley mise recommunition Finto Valley mise recommunition Brist Coal slurry pipe for Lossen Land Lossen Loss R. Strong iros ore demmis and to India Coal slurry pipe for Indian mica for U.S.S.R. Soviet zinc order for Commission and the commission of the commission	IA I	J371 J386 J386 J389 J389 J389 J389 J428 J428 J428 J428 J428 J428 J428 J428
Ilmenite plant for Sri Lanks Mineral exploration in Sri Lanks Sri Lanks copper find  SUDAN  Development to start at Gebeit Dri Sudan Sudanes gold find for Greenwich Resources Sudan gold Greenwich Sudan scheer encouragemen Sudan gold More Sudan gold More Sudan gold More Sudan gold More Sudan gold Surinam strike over Royal fill feasibility study Gold in Surinam Surinam strike over Royal fill feasibility study Gold in Surinam Surinam shaukite  SWEDEN  Boart and Stromnes in marketing agreement The research mine New hydraulic rock drills  SWIZERLAND  Swins interest in Chilean mining venture  TAIWAN  Taiwan to mine coal in Indonesia? Copposition of the coal in Indonesia?  Taiwan to mine coal in Indonesia?  Taiwan to mine coal in Indonesia?  Taiwan to mine coal in Lindonesia?	MW M IA H H H H H H H H H H H H H H H H H H	J036 J036 M099 J126 M198 J251 J251 J063 J177 M300 M431 J177 M309 J112 M335 J112 M35 M35 M35 M35 M35 M35 M35 M35 M35 M35	plans queried Turkish copper Cayell update  UGANDA  Revised recovery programme Kilembe copper mine news Encouraging progress  U.K.  Aveling Barford acquired Belvoir coal project gomes and comment of the coal coal coal coal coal coal coal coal	MW HI MW HI A MW I A A MW I A A A I A A A I A A A I A	J231 J234 J331 J344 J311 J3435 J037 H015 J435 J011 J020 J026 J026 J026 J026 J026 J027 H017 J080 J17 J080 J17 J127 J128 J172 J128 J172 J146 J162 J162 J162 J172 J178 J179 J180 J172 J180 J180 J180 J180 J180 J180 J180 J180	Breakwater progress Valdez Creek mining Swedish interest in U.S. coal mine: Sumny and the second since of	H I I I I I I I I I I I I I I I I I I I	M014 M014 M014 M014 M014 M014 M014 M014	gold project gold project good drill rig performance Dominion swarfs coal terminal JV for Victorville property Offshore research Stockpile plans UNC Resources settlement UNC Resources coal contract Lend strike Swins U.S. orders U.S. Trade Commission vote Swins U.S. orders U.S. Trade Commission vote Resource Import resource Import resource Import resource Import resource Import resource on Buper mine Addit Preserves for Ruse Hint calls for metals Quif smelter not for sale Golf smelter not for sale Facility of the Swins of the Swins Will Call of the Swins Will	IR I	J2711 J386 J386 J386 J389 J389 J389 J428 J428 J428 J428 J428 J428 J428 J428

Yugoslav brown coal	R	M017
Yugoslav copper plans	IA	3079
Agreement for Occidental and		
Yugoslavia	IA	J112
Yugoslav copper	18	M126
Phosphate finds	18	M126
Barter agreement for Jamaica		
and Yugoslavia	IA	J178
Lignite mine for Yugoslavia	IA	J211
Closure for ferro-nickel		
plant	IA	J212
Yugoslav gemstones	11	M197
Yugoslav mines order dump	-	
trucks	EA	J287
Yugoslav lead-zinc mine	IR	M311
Yugoslav coal output	IA	J320
Accident halts Strmosten		
mine	TA	J323
ma nec	0.00	0.000

Yugoslav tin find	- 18	M430
Yugoslav-lead/zinc mine	H	M430
Yugoslavian zinc find	EA	J370
Yugoslavia to develop mine	IA	J407
New Yugoslav mine	H	M523

#### ZAIRE

	J03
HW	J205
IA	J27
	MM

#### ZAMBIA

Zambian strike over	IA	J04
Purchasing contract for ZES	IA	J07
Zambian copper and cobalt	EA	J09
Zambian copper mine to close	IA.	3140
Zambian loan from World Bank	AI I	J16:
Approval for Zambian loan	IA	J23
Pumps for Zambia	IA	J25
Trading organization for		
Memoro	TA	J272
Zambia: copper and cobalt		
sales	IA	J28
Zambian uranium prospects	H	M301
Bwana Mkubwa to close		M31
W.B. loan for Zambian copper	H	M43
Zambian zinc prospect	TA	J386

#### Zambia cancels emerald agreement

#### IA J428

#### ZIMBABWE

Cluff Oil to develop mine in		
Zimbabas	IA	J063
Government aid for Zisco	MW	J08
Zimbabwe gold project	H	M19
Further mining losses	_	
expected	MW	J42:
Royal Family mine	IA	J420

#### **Methods and Machines**

#### ASSAY METHODS

Slimbole probe analyzes ore in situ	H	M090
Australian equipment for is-		
stream analysis	M	J109
Portable systems for mining		
and exploration	M	J143
Compact materials analyser	M	J208
Australian equipment for in-		
stream analysis	N	M265
Factors affecting the		
selection of methods of		
gold analysis	A	M468

Project for on-line contro systems in		
pyrometallurgy	M	J31
Come crusher controller at		
efficiency	M	J35
Monitoring shaft pumping		
installation	M	M47
Coal thickness probe	M	J36

#### BIOTECHNOLOGY

Development of biotechnology		
as a mineral extraction route	M	

#### **BLASTING & EXPLOSIVES**

New gel ampoule developed	×	J125
Definitive blasting theory	H	J125
<b>COAL TECHNOLOGY</b>		
Improved rapid ash analyser Large Japanese screens for	M	J060
China	M	J124
High-speed decanter centrifuges upgrade		
coal preparation plant	A	M160
Improved rapid ash analyser	M	M269
Australian spiral for - 2mm		
coal separation	M	J248
Laboratory equipment for		
coal size analyses	16	J268
Continuous miners at Selby	M	J283
International Coal Show	A	M331
The measurement of coal mining subsidence - an		
example	A	M379
High-rate thickener for coal		

J02
J059
M09
M240
M269
127
J229
****
J316
1352
M482
4.40.

Datamine - mining software for computers M M089

Computer applied to raise		
boring in Canada	DE .	M093
Computer applications	HW	J139
Computer correlation of		
exploration data	M	J142
APCOM '8%, March 28-30,		
Legion	M	J192
Handle rock with CARE:	A	M237
APCINI 184	A	M255
Computer correlation of		
exploration data	M	M271
Computer applications	E	M419
Computerized maintenance		
management for the mine		
nite	36	M576

#### CONSTRUCTION

Smelter building unit for		
Alcan	IA	J07
Portal construction in wesk		
water-logged ground	A	M376

#### CONVEYORS New electronic conveyor tension monitor

Manriding conveyor saves		
walking time	38	J12
Mobile elevating and cross-		
pit conveyors	A	M15
Stainless steel protects		
magnet belt	M	J17
Manriding conveyor	M	M26
Free trial offered with		
novel conveyor belt		
cleaner	M	J24
Ropes for Asia's longest		
belt conveyor	M	J26
3.5 km conveyor belt system	M	J28
Belt conveyors - increasingl	y	
the chosen option	A	M36
Long-life cartridge conveyor		
idlers	M	M39
Ropeway for limestone is		
Sudan	M	M47
New continuous ship-unloader	M	M57

#### DREDGING

New pilot prospecting dredge	M	J09
High speed cutter wheel ups dredge production	M	J15

#### DRILLING

Irish ideas improve mineral		
Slimbole probe analyzes ore	A	M050
in situ	M	M090
Powerful crawler blasthole		
drill	M	₩092
Button bit grinder introduced	м	M094
		<b>BU94</b>
Efficient drilling in French	M	M095
New unit for longhole	_	
production drilling	M	M095
Drills for exploration in		
Sudan	M	M099
Rock drill bits	A	M143
Branching and steering small		
diameter cored holes	A	M164
Drilling efficiency		
indicator	M	M171
Mobile sampling drill suited to Canadian field		
conditions	M	J142
New hydraulic rock drill	36	J175
New benching rig		
demonstrated	М	J192
High speed, deep-hole work		
in South Africa	16	J193
New tool for recovery of		
lost drill rod strings	M	J208
Handle rock with CARE!	A	M237

coal opencast	30	M271
New series of pneumatic rock		
drills	M	J268
Exploration drilling for		
shallow coal reserves	M	M388
Waterjet cutter with		
entrained abrasive	M	M393
Lightweight core sampler		
dril1	M	J316
New hydraulic rock drills	H	J335
Large Australian drills for		
S. Africa and India	H	J352
PCD bits double penetration		
rate	M	M479
New beaching rig	M	M482
Lightweight core sampler		
drill	М	M483
Optimisation of rotary		
drilling for bolting		
and blasting	D	M498
New rockdrill improves		
output	AI	J371
Record drill rig performance	IA.	J371
New, large blasthole drill	36	J384
rig Truck-mounted drill	M	J404
Water-jet drilling	W.	J405
Two new hammers from U.K.	-	3403
COMDANY	м	J439
New tool for drill string		0430
recovery	M	M576
10001019	-	

New drill impressive in U.S.

#### **EDUCATION & TRAINING**

At your service	E	M007
Explosives course	IA	J162
APCOM 184	A	M255

#### **ELECTRICAL EQUIPMENT**

Tough electrical cable for		M097
ZCCM to more than double usage of electric truck		MO97
assist system	M	J076
100,000 hours of generation	A	M261
<b>ENERGY &amp; POWER</b>		

#### SUPPLIES California: geothermal

resource	IA	J009	
Severe setbacks for the U.S.			
nuclear industry	MW	J056	
Hydroelectric generator will			
cut energy costs in			
U.S. mine	M	J108	
100,000 hours of generation	A	M261	
Energy options	NW	J297	
France: nuclear power			
prevails	N	J309	
Power generation by gas-			
from-coal in U.S.A.	P	8427	
Hydro generator in U.S. mine	16	8477	
Greece considers coal power			
stations	IA	J371	
Joint venture development			
for Escom contracts	NW	J379	
Improved generator sets	M	J404	
Kenya to study geothermal			
potential	IA	J406	
Coal-fired power for South			
Korna	IA	J406	
World energy review	IA	J409	
Dinorwig power project,			
Wales, inaugurated	P	M517	
Recovering energy from			
chilled water	A	M552	
FAULUDONIA COLUMNIA COL	-		
ENVIRONMENTAL CON	Ш	IOL	

Key I	Lake plans purification		
	of water spillage	IA	J045
Mine	spillage to be cleared		
	up	IA	J112
AURO	timotable for Asswer	TA	1110

Acid drops	M	J117
Regeneration at Weips		
bauxite	A	M206
Environmental measuring		
	M	M270
	D	M283
	TA	J232
	M	J284
Canada: environmental costs	IA	1339
The Noranda view	NW	J365
Key Lake: radioactive		
spillage	IA	J371
	Regeneration at Weipa bauxite Environmental measuring equipment Air and water borne pollutants from uranium mines and mills German mise for nuclear Exhaunt gas purifiers Canada: environmental costs The Noranda view & Lake: radioactive medianticular and particular and water and particular an	Regeneration at Weipa bauxite Environmental measuring equipment Air and water borne pollutants from uranium mines and mills D German mine for medicar Exhaunt gas purifiers Lanada: environmental costs IA The Moranda view

#### **EXCAVATORS & LOADERS**

Hydraulic excavator loads		
granite rock	A	M032
Scrapers	A	MO 46
New 2vd3 load-haul-dump	M	M269
Tough underground mine		
SCOODS	M	M270
Surface miners for opencast	N	M270
Motor graders improve		
production	M	M480
New hydraulic excavator in		
S. Wales	M	3300
New crawler dozer	M	J405
High-efficiency, low	-	
operating cost LHD from		
Finland	M	374214

#### **EXHIBITIONS & MEETINGS**

Slementary geostatistics	IA	J011
Coal handling and storage	IA	J011
Slectra Mining Exhibition	IA	J028
old & silver	IA	J028
international Mining	IA	
line ventilation	IA	J029
industrial minerals congress	IA	J029
Coal geology	IA	J029
lineral economics	IA	J029
Illuvial tin mining		
techniques	IA	J029
lacer deposits	IA	J029
Turkish coal congress	IA	J029
Inderground structures in		
urban areas	IA	J329
rillex '84	IA	J029
Carthquake and blasting		
vibrations	1A	J029
Coal preparation	IA	J080
Computers in mining	IA	J080
ustralia: the mineral		
reality	IA	J112
invironmental workshop		J128
nergy seminar	IA	
eology and genesis of		
mineral deposits in		
Ireland	IA	J128
computer applications	MW	J139
ydrocyclones	IA	J179
PCOM '84, March 26-30,		
London	M	J192
ecnomin '84	A	M215
PCOM '84	A	M255
lotation of sulphide		
minerals	TA	J232
old conference		J232
ulk handling	IA	J232
mall gold mines		J232
eology of tim deposits	IA	J232
nternational mining	IA	J232
ndustrial minerals congress	IA	J232
nternational Coal Show,		
Chicago, U.S.A.	M	J283
elenium and tellurium	IA	J287
nternational Coal Show	A	M331
bandoned mine lands	IA	J303
ineral resources management		J303
oaltrans '84		J303
hins coal mining exhibition	IA	J303
ressure die casting	IA	J303
anadian mineral outlook	IA	J321
mall scale mining		1321

Brass seminars Chromium Association	IA IA	J321 J321	Coal dispute	MW	J264 J272	Exploiting sulphidic ores & concentrates	M	M389	The receding recession? Marketing of copper	E	M513
Coal contracts Call for ventilation papers	IA	J355 J355	Broken Hill talks Strife in U.K. coalfields	IA.	J272 J277	Vibratory equipment for mineral processing	H	M391	menuntrates	A	M568
Mineral processing and extractive metallurgy	IA	J372	Broken Mill dispute Tasmanian strikes end	IA	J286 J302	Preconcentrator comes on- stream at Finnish mise		J300	PROCESS CONTROL		
Ground control in mining	IA	J372 J399	Falconbridge: tentative pact		J302	Large cascade mill for U.S.		J369	Morwegian instruments in		
Magnesium conference Coal slurry combustion and			Pay settlement in South Africa	IA	J302	gold project X-ray analyser for mear-	_	9309	U.K.	н	J229
Occupational radiation	IA	J389	Wabush mines Broken Hill deadlock	IA	J302 J302	stream slurry elemental	H	J384	PROSPECTING		
safety Reagents in the minerals	IA	J389	Labour disputes continue Falcombridge agreement	IA	J312 J321	Lab model separator for feebly magnetic					
industry Extractive industry geology	IA	J409 J442	Terex re-hires employees Preussag refinery lockout	IA	J321 J321	materials Compact, low energy pressure	M	J424	Irish ideas improve mineral	A	M050
Mine ventilation congress, U.K.	A	165-6.7	Accident halts Strmosten mine	IA	J321	belt filter New mobile mineral	H	J438	New magnetometer added to microprocessor-based		
THE OF STICE			Broken Hill dispute Australian coal: union action	IA	J338	processing plant	M	J439	Kenya issues prospecting	M	J143
EXPLORATION			threatened St. Joe strike	IA	J338 J339	MINING EQUIPMENT			Microcomputer database for	IA	J285
New gravity instrument under development	M	J040	Pine Point operating without contract		J339	Buying the best	E	W115	exploration work Geological expenditure	H	J430 J440
Aid for Dominican Republic exploration	P	MUXO	Huanumi strike continues Kennecott seeks labour talks	IA	J339 J354	Chains for the mining industry	×	J209			
Mining activity in the Western World	A	M058	Broken Hill return to work	IA	J354 J354	Tecnomin '84 International Coal Show	A	M215 M331	PUBLICATIONS		
Borehole log processing technique	м	J078	Embargo threat withdrawn	IA	J355 J355	Belt conveyors - increasingle the chosen option	ly A	M362	Sulphide exploitation	IA IA	J011 J011
Computer applications Computer correlation of	MW	J139	Strike plan approved Copper contract changes	IA	J371	Outlook for European mining	M		Tim report Mining taxation survey	IA	J011 J028
exploration data	M	J142	Kennecott unions reject talks	IA	J388	equipment Automated coal stock		M391	Australian gold newsletter At your service	E	1007
Computer correlation of exploration data	M	M271	Que River threat lifted Northgate: new labour	IA	J388	Shaft hoists	A	M397 M447	Cautious optimism Netal Traders to the World	IA	J072 J080
Waterproof notebooks for recording data	м	J268	contract S.A. wage rise	IA	J388 J388	Wine ventilation fans	A	M557	Coal and ore ports Study looks at mining market	IA	J080
Large mobile rig for 8. African gold search	M	J269	Noranda denies layoffs Amax talks fail	IA	J388 J388	OFFSHORE & DEEP S	SEA	4	in Europe to 1988 The future of low-sulphur	10	J108
Exploration drilling for shallow coal reserves	м	M388	Alpart strike Phelps Dodge rejects	IA	J388		MIN	IING	coal Molybdenum yearbook	IA	J112 J112
Mineral exploration in Sri	-		proposals	IA	J408	Government approves offshore			World Tin Market - political		3112
Lanka Portable core sampler drill	A	M464	Lead strike Kennecott cancels vacations	IA	J408 J408	minex programme India seeks seabed mining	PAR	J071	pricing and economic competition	R	M169
from Finland	M	J438	Breakdown in coal talks Noranda workers accept	IA	J408	area Nodules or crusts from	IA	J179	Elektronische Steveungen und Mikroprozestoren im		
FILTRATION			contract Gold mines dispute	IA	J408 J427	sea-bed? Offshore research	MW		Bergbau Guide de Prospection des	R	M169
			Iron ore pact rejected Pine Point talks to resume	IA	J427 J427	Olishore research	1.00	0.000	Materiaux de Carrière Prospecting and evaluation	R	M169
Fifth filter for S.A. phosphate concentrates	14	M171	Alcan Jamaica strike called			OPENCAST MINING			of non-metallic rocks	3	M169
Automatic chamber filters for coal	м	M171	off Preussag labour agreement	IA	J427	Scrapers	A	M046	and minerals Reclamation and re-cycling		
			hopes LKAB strike	IA	J427 J427	Wining activity in the Western World	A	M058	Mineral deposits diagram	IA	J156 J162
FLOTATION			Kennecott layoffs S.A. pay offer rejected	IA IA	J441 J441	Field performance analysis		M089	Mining 1984 Roskill's Metal Databook	IA	J162 J179
Separation by flotation of			Opemiska strike Metalworkers dispute to be	IA	J441	New coal hauler Powerful crawler blasthole	ii	M091	Brazilian tin report A modest revival?	IA	J179 J203
copper-lead-zinc sulphides	A	MO36	resolved	IA	J441	drill	H	M092	Ontario Mineral Score	IA	J272
Unit supplied to coal preparation plant	М	J077	MAINTENANCE &			Rock drill bits Mobile elevating and cross-	A	M143	Alluvial mining L'Esplosivo e la Roccia	R	M386
Flotation of oxide ores	D	W177	LUBRIC	AT	ION	pit conveyors Surface miners for opencast	A	M156 M272	Planning, design and analysis of tailings		
<b>GEOLOGY &amp; ORE RESI</b>	ERV	'ES	Mobile mechanics workshop	H	M096	Belt conveyors - increasingle the chosen option	A	M362	Mineral reconnaissance	IA	M387 J303
Borehole log processing			New 'Jumbo' fuel and lube unit	H	MERCI	Truck-mounted drill	M	J404	Mineral markets Mineral processing in	IA	J303
technique	MA	M397 M434	New design radiator is field- repairable		2309	PIPELINES			developing countries Metals market study	IA.	J355 J355
The mine at Goat Hill Mineral exploration in Sri		M464	Computerized maintenance	-	0.200				Iron and Steel Works of the	2.00	M484
Lanka Marketing metallurgy	N	J397	management for the mine site	M	M576	Coal slurry pipe for U.S.S.R.	IA		Werld Oilfields of the World	R	M484
INCTRUMENTATION			METALLIBON			Coal slurry project shelved New strainer and ball valve	H	J321 J405	Indigenous raw materials for industry	8	M484
INSTRUMENTATION			METALLURGY						LME film Outario Maps	IA	J372 J372
Field performance analysis service	16	M089	Continuous casting systems Marketing metallurgy	M	J091 J397	POLITICO-ECONOMIC			Mineral resources development	IA	J372
Drilling efficiency indicator	м	M171	A new process for clay- bearing ores	M	7430	Philippine prospects Peru: project financing	NIA	J001 J010	Steel: is there a future? Outbursts in Mines	IA	J372 J401
Flowmeter system for tough	M	M481	bearing order	_		Titanium producers at odds Revised recovery programme	N	J033 J037	World energy review Mining in Alaska	IA	J409 J442
applications	-	H401	MINE COMMUNICATIO	)NS	S	Argentina's plans and	N	J053	Gold futures	XA	J442 J442
LABOUR			Suspension system of mobile		N481	Mining activity in the			Coal and ore ports Mining subsidence	IA	
Asarco labour contract			radio	*	M451	Western World Confusing the issue	A	M058 J080	engineering Ok Tedi: evolution of a	R	M581
extension Death toll rises	IA	J010 J010	MINE HOISTING			Stockpile proposals Copper conflict deepens	H	J094 J101	third world mining project	R	MS81
Matchless employees retrenched	IA	J010	High-safety mine haulage	M	J248	Arabian mining potential Indians make Hemlo land	H	J133	Pumping manual	8	M581
Disqualification for Chilean copper leader	IA	J027	Shaft hoists	A	M447	claim Barter - a product of	IA	J144	<b>PUMPING &amp; DRAINAG</b>	E	
France: job losses Bauxite workers on strike	IA	J027 J027	MINE LIGHTING			recession	16	J153 J187	Large capacity pumps for	_	
Alcan talks Peruvian talks adjourned	IA	J027 J027	Air-powered lamps	M	W170	Fifth birthday for EMS South Africa: a word of		JIN JIN	abrasive slurries	=	J008 M099
Chilean union leader re-			nii poucica zampo	_		African pragmatism	N	J201	Pumps for high-density pulps Effective lagoon pump	ü	M267
elected Zambian strike over	IA	J045 J045	MINERAL PROCESSING	1		1983: a disastrous year Budget increases	MY	J204 J210	Automated underground clear water pumping system		J352
Asarco tentative agreement Impala workers discharged	IA	J045 J045	Improved tramp metal			LDCs, the IMF and MNCs Examining title to	E	MINI	Popular mine/quarry pump Large-capacity pumps for		H479
Rietspruit strike Japanese coal mine disaster	IA	J045 J045	detector Recent hydrocyclone	M	300E	unpatented mining claims in the U.S.	A	M251	slurries Heavy duty submersible mine	H	M482
Refinery reopening delayed Surinam strike over	IA	J063 J063	developments	M	J040	Funding and finance New Zealand resource	N	3331	dewatering pump	M	J424
Port Hope labour cutbacks	IA	J079		M	J059	projects	N	J261	RESEARCH		
Strikers to sue Phelps Dodge Report on West Driefontein	IA	J079	Separation by flotation of copper-lead-ziac			The coal conundrum Indian budget & mining	E	M295			
accident Sudbury workers recalled	IA	J111 J147	Sulphides New chemicals for Mo	A	W036	Constraints on Canadian mine development	MA	J312	Mining research for Manitoba Alcan develops smelting		J028
Amax zinc agreement French miners strike against	IA	J147	recovery Twin synchronous drives for	M	M092	Congress considers new	MA	J314	New R&D group	IA	J196 J196
job losses	IA	J162 J179	ore mills Plant for evaluation and	M	M094	stockpile proposals S.A. mineral growth areas	EA	J330	Regeneration at Weipa bauxite	A	M206
Sandmining job losses Mine explosion	IA	J179	test work in Saudi	M	J077	Coal producers defend prices Indonesia rising to the			Coal research facility Pechiney: new process	IA	J287 J371
Miners strike Confrontation at the pithead		J179 J188	New superconducting magnetic			Challenge Debt - whose problem?	N.	J329 J345	Warren Spring 25 years on	WW	J436 J442
France firms on pit closures	IA	J189 J196	High-efficiency metal	M	J124	Copper: ITC hearing begins Gold in perspective	MM	J348 J361	Plan for Japan and Australia Coal-water mixtures	IA.	J442
St. Joe strike possible Bolivian strike threat Peru: strike hits mines	IA	J196 J213	detector New lead sinter plant at La	M	M173	Uranium - the next 10 years	N	J377	The receding recession?	E	M513
Westmin strike ends	IA	J213 J213		A	M246	Namibia: mining industry remains in the doldrums		J399	<b>ROCK MECHANICS</b>		
Bolivian strike over Miners' strike affects BSC	IA	J213	output	N	M266	Bolivia's battered economy Federal boost for Nova	N	J417	Field test device for rock		-
Bolivia: further strike threat	IA	J232	Magnetic equipment testing service	M	J229	Scotia Encouraging progress	ZA.	JA28 JA35	Cores The research mine	A	J040 M134

m at with wint days		M237	New dry mix, low maintenance			in 1983	NW	J157	New 6-wheel drive		
Handle rock with CARE!		8437	guniting system	M	J385	Magnesium production rises		J161	articulated trucks	M	M5.7
The measurement of coal			Strata control aspects in	-		Rapid demand growth forecast	NW	J173			
mining subsidence - an		M379	Soviet mines	D	M587	Lead and zinc	IA	J178			
example		B313	GOATAC STRANG	~	2001	Increased world tin deficit		J212			
						Selenium joins the bulls	HEN	J223	TRANSPORT-		
RUBBER & PLASTICS			SURVEYING			A record mine output of Cu-	100.00	0000			
HODDEN & FENSINGS			0011111111			Pb-Zn in 1983	WW	J225	UNDERGI	RO	UNI
Effective material for			New geophysical transmitter	M	M092	Nickel - assessing the cost	N	J241			
			Survey information sought	ME	J105	Production declines in 1983		J244	Flameproofed loco for coal		
stators, rotors and slurry handling	м	J193	Radiometric marine surveys	M	M172	Non-ferrous trade surplus	MW	J281	mines	16	MOST
SIUTTY BANGLING		9799	New 1.00 is diameter single			Iron ore consumption up	IA	J287			
			shot survey tool	M	J142	Silver output	IA	J319			
SAFETY & HEALTH			Seismic surveying from a	_		Aluminium stocks down	IA	J338			
			truck	16	J143	Aluminium stocks down		J338	TUNNELLING &		
U.K. monitoring equipment			Shaking the earth	MW	J189	Japanese non-ferrous outlook	IA	J339			
	M	J008		-	0.200	Straits shipments up	IA	J339	SHAFT SII	NK	ING
		J011	Field portable digital			Chinese metal imports up	N	J346			
Stricter controls sought on	***	2011	seismic event recording	No.	J228	Tin turns the corner	A	N460	Australian company's		
	No.	J020	system		J285	Gold mining in Chile	N	J361	involvement in two new		
New coal-burning boiler to		0000	Thailand: geophysical survey	IA	J287	Gold in perspective	N	J377	projects	M	J025
eliminate SO2 emissions	NO.	1020	3D seismic interpredation	1.00	9201		MW	J400	Computer applied to raise		
Safety gate for mine shafts		M091				Bull market for PGMs	IA	J407	boring in Canada	M	M093
Report on West Driefontein	-	MOD 2	<b>TAXATION &amp; TARIFFS</b>			Aluminium stock up	MW	J421	Laser-guidance frame for		
	IA	J111	IAAATION & IAMITO			Metal mining output higher	DE DE	2421	raise driving	M	M096
		J117				Further mining losses	MW	J421	Full-face borers from France	M	M170
Wise owners blamed for	49	2111	Copper import tariffs for			expected		J421 J433			
	MW	J119	Brazil?	IA	1063	Manganese - hostage to steel	16				
		J128	New royalties scale for			Nickel: view from the bridge	MA	J435	UNDERCROUND MINE	IBIC	~
New flameproof battery locos		N173	Broken Hill mines	MM	J205	The receding recession?	E	M513	UNDERGROUND MINI	IMC	3
		MILLO	Budget increases	ME	J219	Marketing of copper					
New carbon monoxide monitor			Thai efforts to boost			concentrates	A	M568	Impressive drivage at U.K.		
	M	J159	industry	IA	J286				pit	M	J008
	IA	J162	Resource tax issue	IA	J287				Raypura-Dariba lead-zinc	-	0000
Intrinsically safe CO			India ends barytes duty	IA	J255	TRANSPORT - GENERA	1		mine		M022
monitoring unit	M	J175				INAMO ON GENERAL	-		Mining activity in the		10022
	IA	J179				Cost sended			Western World		M058
Specialised measurement		Sec. 3	TRADE & STATISTICS			Coal terminal expansion	I.M.	J010	Safety gate for mine shafts	M	M091
	M	J208				Accurate tyre tread depth			Mobile mechanics workshop	×	M096
Environmental measuring			Gloom for European producers	NW	J004	gauge for off-highway			Manriding conveyor saves	-	10000
equipment	M	M270	Mining secrets emerge	MW	J005	Wew coal hauler	M	J041	walking time	w	J125
Air and water borne			Mexican expectations	IA	J027	New rear dump truck	M	M091	Bock drill bits	A	W143
pollutants from uranium			Titanium producers at odds	N	J033		M	M093	St. Joe's Balmat mines	A	W230
	D	M283	Silver stocks	IA	J044	Suspension for off-highway trucks	-		Tough underground mine	-	MESC
Exhaust gas purifiers	M	J284	Supply prospects reviewed	NW	J056		MI.	1095	scoops	31	M270
East Rand mine deaths	IA	J286	Fall in mineral value for			Vehicle for materials					M210
Intrinsically safe			Quebec	IA	J062	transport	MI.	M097	Belt conveyors - increasingly		M362
thermometer for			Mining activity in the			Mobile elevating and cross-			the chosen option	A	
underground	M	J317	Western World	A	M058	pit conveyors	A	M156	The mine at Goat Hill	A	M434
New curbs proposed	MW	J349	Cautious optimism	MM	J072	Efficient personnel			Shaft hoists	A	M447
	WW	J401	Sombre outlook	MW	J073	transport	M	M171	Utility machine for		
Bockfall at Falconbridge			Tin projections	IA	J079	New flameproof battery locos	M	M173	underground	M	J384
	IA	J441	Zinc outwits the analysts	H	J085	ZCCM expands truck assist			New underground equipment	M	J404
		J441	On the move	NW	J106	system	36	M265	Battery powered equipment	36	J405
L'AISSAS MINE GIAST			Study looks at mining market		0100	Volvo launches 6-wheel drive			Al Masane	A	M538
			in Europe to 1988	м	J108	artic trucks	16	J228	Mine ventilation fans	A	M557
			Record year for Western	-	0.400	Radiator design overcomes					
SCREENING			Australia	IA	J110	problem leaking	M	J249			
SCHEENING			Lead inventories up	IA	J111	Three-wheeled motorcycle for			<b>VENTILATION &amp; DUST</b>		
Vibrating screens from			Zirconium output	IA	J111	mine/quarry use	M	J249	CO	BUT	ROL
	M	J176	Selenium production	IA	J111	World Jank help for China		J271	CO	re t	nou
		M267		MM	J120	Combi truck for U.K.					
		M407	Better times ahead?	WW	J122	steelworks duties	M	J300	Portable, compact anemometer	84	J059
			Slow recovery	-	3166	Tyre handler for large tyres		J336	Dust suppression with	-	3002
STRATA CONTROL			Rise in industrial demand	IA	J127	Mechanical drive mine trucks		M476		М	M389
			for gold					ma 10	charges fog	M	
STRATA CONTROL			Buying the best	E	M115	New design radiator is field-		1000	Dust suppression system	M	J385
						repairable	M	J369	Monitoring system	-	J425
Temporary roof support		MAGO	Barter - a product of								
Temporary roof support option	N	W099	recession	N	J153	170-ton trucks for Colombian		1420	Mine ventilation congress,		MEC
Temporary roof support	N	M099 J300		NEW	J153 J157	170-ton trucks for Colombian coal project Rough terrain forklifts	N M	J438 M577	Mine ventilation congress, U.K. Mine ventilation fans	A	M547

## **Companies and Other Public Bodies**

A	Anderson Strathclyde	M J008	Development		Boart Drilling	M J1:
		IA J011	Laboratories	M J109	Boart Europe	IA J1
Aberfowle MF J047	Anglo American	MF J065		M M265	Boart International	M J3
ME J256 MF J258 IA J338	MF J068 ME J216	MF J219	Australia Mining	MF J259	Boliden	IA JO
WP J443	MF J359 ME J392	MF J394	Austromineral	P M119	MF J327	IA J4
Abitibi-Price 1A J387		MF J412	Aveling Barford	IA J011	Bond Corp.	IA J4
Afrikander Lease MF J289	Anglo American Coal Corp.	MW J280		IA J428	Borealis Expioration	IA J3
Agip Canada IA J386	MF J341 ME J342	ME J410			Botswana RST	MF J2
Agnico-Eagle IA J253		MP J411			Bougainville Copper	MF JO
MF J430	Anglo American Gold				MF J149 MW J223	MF J3
Alaska Apollo Gold IA J126	Investment	MF J181				A M5
MF J217	ME J218	MF J258	В		Bouvges	N MI
Alcan IA J027	Anglovaal	MF J050	D		Boyle Controls	M J2:
MF J030 1A J078 MF J082	nug.covaa.	MF J275			Bracken	MF JO
IA J112 WF J180 IA J196	Aredor-Guinea S.A.	P W118	Bachelor Lake Gold Mines	MW J365	MF J049	MF J2
IA J271 MF J292 MF J395	Argyle Diamond Mines	IA J078	Balmoral Resources	IA J195	BRECO	М 141
1A J427 1A J428 MF J431	IA J126 IA J196	IA J339	Barlow Rand	MF J217	Brenda Mines	IA J3
	Armco Autometrics	M J384		MF J359	Drenda stnes	MF J3
Alcoa of Australia IA J145	Commercial State of S		Barrick Resources	IA J230	Brinco	MF J4
	Asarco		Battelle's Columbus		British Alcan	MF J3
	IA J045 MW J088	IA J093	Laboratories	₩ J316	British Jeffrey Diamond	M J2
	IA J112 MF J114	IA J161	Beatrix	MF J049		P M5
Allis-Chalmers A M321	MF J255 MF J292	1A J370		MF J274	British Wining Consultants	M M1
IA J441	IA J387	MF J431	Bechtel Power Corp.	P M427	British Oceanics	
Aluminum Co. of America MF J082	Asbestos Corp.	MF J032	Becorit	M M173	British Petroleum	IA J16
MF J288 IA J440	ASEAN	IA J195	Brina	MF J049	MF J163 MF J327	IA J38
Aluminium de Grece IA J428	Associated Manganese Mines			MF J233	British Ropes	M J26
Alusuinae MF J167	of South Africa	MF J359	Benguet Corp.	IA J078	Broken Hill Proprietary	MF JO
MF J365	Associated Tunnelling	A N376		MF J150	IA J061 MF J114	MF J1:
Amax MF J096	Atlantic Richfield	MF J030	Bethlehem Steel	MF J098	MF J198 N J221	MF J34
IA J147 IA J161 MF J292		IA J044		IA J441	IA J355	IA J42
MF J327 MF J340 IA J355	Atlas Consolidated	MF J013	Bharat Coking Coal	A W349	Brunswick Mining	A MO4
IA J388	Atlas Copco	A M032	BIR Winerals	IA J353	M M093 MF J132	MF J39
Amax Coal IA J196	M M093 A M136	M J175	Bindura Nickel	MF J411	Brunswick Oil	IA J14
Amax Magnesium Corp. MW J333	A M237 IA J231	M J268	Binnie & Partners	A M376	Buffelsfontein	MF JO4
Amax Petroleum MF J083		A M539	Bison Drilling	M J208		MF J27
American Mining Congress MW J296	Atlas Corp.	IA J127		M M576	Bula Ltd.	P 1600
E M513	Australian Information		Black Mountain Mineral Dev.		Bureau de Recherches	2 1801
Amey Roadstone IA J254	Service	M J041	Blyvooruitzicht	MF J049	Geologiques et	
Anaconda Minerals IA J145	The Australian Mineral		MAY TOOL WA CALCUIT	MF J274	Minieres	IA J30
	THE RESERVED BANGES			mr 3274	minieres	IA 330

c		Dresser Industries Driefontein	M J405 MF J031	Golden Dumps Gold Fields Canada Mining	MF J257 IA J337	Erunacott IA J388 IA J408	IA J354 IA J427
Cable Belt	IA J161 IA J426	Drillsure Ltd.	MF J257 N M099	Gold Fields Mining Corp. Gold Fields of South Africa	IA J270 MF J099	Herr Addison	IA J441 MF J166
Calor Gan Camflo Mines	MW J225 IA J009	Driltech	N M388 M J404	MF J257 IA J303 Gold Institute	MF J359 IA J078	Kerr-McGee	MF J375 MF J015
Camindex	MF J393	Dunlop Belting Du Pont Co.	IA J254 M M097	Goldrim Mining Australia Goodwin Barsby	IA J095 IA J128	KHD Humboldt Wedag	MF J341 M J060
Campbell Red Lake Mines	MW J281 MF J429	Durban Deep	MF J049 MF J274	Goldwinn Resources IA J253	IA J211 IA J285	Kia Ora Gold Corp.	M M269 MF J097
Campbell Resources	IA J062 MF J445	Duval Corp.	IA J353 MF J375	Gopeng Consolidated	MF J148 ME J183	Kidd Creek Mines	IA J144 MF J215
Canada Tungsten IA J337	IA J110 MF J358	Dynafloat Dynatec Mining	M MO95 M MOP3	Granduc Mines Great Eastern Mines	IA J094 IA J145	Kiena Gold Mines	MF J231
Canadian General Electric Co.	M M094	E		Greenwich Resources	MW J381 IA J126	Kilborn Engineering	IA J211 MF J012
Caris Corporation Carnon Consolidated	P M516 WW J172		MF JOSO	MF J198 IA J251 Grootvlei	IA J270 MF J049 MF J275	MF AD40 Klockser Industrie Anlagen	MF J275 IA J080
Carr Boyd Minerals Caterpillar	IA J092 A M032	Eastern Transvaal Cons. IA J111 East Rand Cons.	MF J275 IA J370	GRE Sentals Gulf and Western	MF J275 M J143 IA J320	Kloof	P M118 MF J031
A M046 M M089 A M319 M M480	P M119 M J404	East Rand Gold and Uranium MF J166 MF J289	MF J067 MF J443	Gulf Resources & Chemical	MF J166	Kobe Steel	MF J257 M J124
Centennial Minerals	A M539 P M194	East Rand Prop. Wines	ME J444 MF J049	_	MF J411	Kometsu	IA J196 A M046
Central Electricity Generating Board	P M517	Echo Bay Mines	MF J274 IA J092	н		Kome Corp.	A M319 M J059
Central Kalgoorlie	IA J110 IA J319	MW J263 MF J324 Economist Intelligence Unit	YA JA26	Halifax Tool Co.	M J384 N J439	Krupp	M M269 A M156
Central Selling Organisatio Centromin	IA J147	EDA Instruments Eden Roc Mineral Corp.	M J143 IA J251	Hamersley Holdings	MF J149 MF J214	Kupinniemen Konepaja Ky	M J283 M J438
Chamber of Mines of South	IA J232	Eimco-Secoma	IA J406 M M095	Hampton Gold Mining Areas Hanna Mining	MF J199 MF J129	L	
Africa Charter Consolidated	ME J446 MF J031	Elandsrand	M M269 MF J067	Haoma North West NL	MF J394 IA J230	LaBour Pump Co.	IA J254
Chemwes	MF J448 MF J049	Eldorado Nuclear	MF J289 MF J013	Hardcastle & Richards	IA J337 M J025	Lacana Mining	IA J254 IA J337 IA J409
Cipec IA J339	MF J274 N J101 MW J348	ELE International Ltd.	MF J431 M J385	Warmony MF J199	MF J049 MF J274	Lac Minerals MF J165 IA J211	MEF J150 IA J270
Clark Equipment Co. Clark Nichigan	IA J080 IA J254	Empresa Nacional de Mineria (Enami)		Harnischfeger Harrison Western Corp.	1A J147 M J352	MP J341 IA J370	IA J386 M M577
Clayton Silver Mines Cleveland-Cliffs	IA J146 MF J098	Encore Drilling Co. Endeavour Resources	A MIGA IA J126	Hartebeestfontein	MF J050 MF J275	L & M Radiator, Inc.	M J249 M J369
Clogau Gold Mines	MF J359 MF J448	IA J252 IA J370 Energy Resources of	IA J386	Hayward-Tyler Banemag	M J108 M M095	Landrill M M171 N J229	A M050 N M483
Cluff Mineral Exploration Coal India	IA J426 IA J213	Australia Engelbard Industries	MF J166 M J284	HDRK Mining Research Hecla Mining	IA J196 MF J115	Larox Oy Law of the Sea Treaty	M M171 MW J364
Codelco IA J231 NW J263	IA J079 MF J274	English China Clays	MF J130 MW J245	MF J303 M M477 Hemgold Resources	IA J427 IA J372	Lee-Norse Co. Leslie	M M099 MF J012
Columbia Scientific Instruments	M J208	ENI	MF J259 P M427	Hewlett-Packard	IA J389 A M320	Libanon	MF J275 MF J031
Comalco MF J113 A M206	IA J079 MF J359	Envirotech Equipement Minier	IA J320 M M097	Highveld Steel and Vanadium	1A J093 MF J167	Lincoln Resources	MF J257 IA J144
Comibol IA J112 IA J160	IA J094 IA J211	Equity Silver Mines	MF J116 IA J145	Hindustan Zinc Holtuis BV	A M022 M J008	Linden-Alimak	IA J440 IA J231
Cominco A M038 MF J099	P M010 IA J194	Erickson Gold Mines Eriez Magnetics	MF J416 M J124	Homestake Mining	M M482 IA J144	LEAD IA J355	A M134 IA J427
MF J324 1A J338 Commercial Plastics Special	MF J448	EDAR AB	M J424 M J209	Honda (UK)	MF J307 M J249	London Metal Exchange	S J058 N J241
Products Commodities Research Unit	M J125 MW J056	Esso Exploration and Production Australia	IA J009	Hong Kong Tin Hudson Bay Mining & Smelting	MF J430	Lonrho	IA J372 MF J215
Commonwealth Scientific and Industrial Research		Esso Minerals Canada	IA J230 IA J285	Humphrey Inc. Hunting Geology & Geophysics		Loraine	1A J426 MF J050
Organization (CSIRO) Compagnie des Bauxites de	MW J157	Euclid IA JOSO P M119	A M032 M M476	M M271	IA J287	Lornex Mining Corp.	MF J275 MF J199
Guinee Compagnie Francaise BK	IA J079 M J316	European Commission	M J438 MW J020	1		Lurgi Chemie M M273	M J024 IA J232
CompAir M M094	A M032 M M170	European Economic Community W J117 IA J128	NW J020 N J171	Impala Platinum	IA J045		
Companhia de Diamantes de Angola	A M530	Exxon Corp.	N J187 MF J050	Inco	MF J115 MF J130	M	
Companhia Vale do Rio Doce Compania Minera de Cananea	IA J063 IA J213	EZ Industries	IA J339 IA J079	IA J144 IA J195 IA J231 IA J287	MF J197 MF J292	MacMillan Energy Malaysia Mining Corp.	IA J230 IA J078
Concol Systems Conoco	IA J254 MW J225		MF J181	Indian Ocean Resources	MW J401 IA J406	Mannesmann Demag	M J368
Consolidated Gold Fields Consolidated Modderfontein	MF J163 MF J031	F			M M271 M J404	Manridge Exploration	IA J160 IA J337
IA J145 Consolidated Murchison	MF J257 MF J097	Fairchild International	M J405		MF J032 MF J097	Marathon Letourseau Marcopper Mining	A M319 A M261
Conveyor Manufacturing	MF J238	Falconbridge IA J271 MF J292	IA J147 IA J302		M M096 M M270	Muriovale	MF J431 MF J049
Components Cornwall Mining Services	M M393 M J268	IA J321 IA J338	MF J416 IA J441	Inspiration Resources	IA J160 MF J013 MF J431	Marinduque Mining &	MF J275
Costain	IA J178 IA J355	Fenner International Ferrochrome Philippines	M J125 M M266		IA J287	Industrial IA J252 IA J271	IA J093 IA J354
CRA MF J183 MF J198	MF J148 IA J253	Fertilizer Economic Studies Fiat-Allis	P M123 MW J122 A M046	Resources International Corona	P M425	Marlow Drilling Services	MF J395 M J142
Craigmont Mines	MF J323 IA J270	Fluid Engineering Products	M M393 M J424	Ressurces	MF J448 A M032	Martin Marietta Corp.	MF J166 IA J354
Crusader Minerals NZ Ltd. Cullaton Lake	IA J177 MF J305 MF J047	Flygt Corp. Foote Mineral Co. Foster-Miller	MF J276 M J108	International-Hough International Minerals &	A MO46	Marubeni Corp. Mascot Gold Mines	IA J285 IA J426
CVG Ferrominera del Orinoco Cyprus Bagdad Copper Co.	IA J080	Freeport McMoRan MF J115 MF J180	MF J099 IA J251	Chemical	IA J112 IA J406	Massey Coal Export Corp. Matthey Rustenburg Refiners	MW J155 IA J320
Cyprus Coal Co. Cyprus Thompson Creek Mining	IA J095 P M008	Free State Geduld	MF J357 MF J289	International Monetary Fund	IA J196 N J345	McDonnell Douglas McIntyre Mines	IA J442 MF J416
D		Frost & Sullivan	M J108 M M391	International Tin Agreement	MW J088 MW J088	Meekatharra Minerals	MF J068 IA J353
Dart Truck Co.	IA J254	G	_ =301	IA J127 IA J196	S J207 S J383	Memaco Trading Mercury Analytical Ltd.	1A J272 A W050
Davy McKee Corp.	IA J254 IA J161 IA J231		N J229		IA J389	Monata	MF J015 MF J358
De Beers MF J288 ME J290	MF J181 M M479	Gamma Instruments A/S GAPS Geological Services	IA J095			Metallgesellschaft Metals Exploration	MF J415 MF J098
Deelkraal	P M514 MF J031	Gardner-Denver Gécamines GEC Mechanical Handling	A M438 MW J205 M J077	J .		MIM Holdings IA J195 IA J286	MF J065 P M301 MF J415
Degussa	MF J257 IA J177	IA J162	IA J272		A M438 M J405	MF J341 IA J389 Minder	M J300
Delfilt Delkor Technik	W M479 M M171	Gencor Investment Corp. General Agreement on Tariffs and Trade (GATT)	MF J099	J. Jones Automation M J175 IA J355	M J025	Mine Data Computer Services Mineral Industries	M J041
Delta Gold NL	IA J194 IA J232	General Electric Technical	M J076	Johannesburg Consolidated Investment	EF J047	Computing Ltd. Mineral Industry Research	M M089
Demag Denison Mines	A M319 MF J081	Services M M265 General Mining Union	M M481	ME J048 MF J050 h John Deere	MF J275 M M046	Organisation	IA J321
Denver Equipment	A M316 M M099	General Mining Union Corporation (Gencor) ME J166 MF J233	MF J164 ME JUNA	Joy Manufacturing 1	IF J065	Mineral Processing Systems Mirrlees Blackstone Mitchell Cotts	M J369 A M261 IA J011
DTHEAT	M J077 M M097	MF J259 MF J274 General Services	MF J414	J-TEC Associates	J059	Mitsubishi Corp. Mitsubishi Heavy Industries	IA J286 IA J162
Dings Magnetic Co. Dome Mines	M J176 IA J301	Administration	1A J232 IA J428	K		Mitsubishi Beavy Industries Mitsui Mining & Smelting IA J195	IA J062 S J383
Dominion Terminal Associates	IA J373	Geomin Computer Services Getty Oil	M M576 IA J144	Carl Kaelble GmbH H	M093	Molycorp Monk & Co.	A M434 A M376
Doornfontein	MF J031 MF J257	Giant Yellowknife Mines Gibraltar Mines	IA J301 MF J115	Kaiser Aluminum I	M J028 F J082	Norgan Equipment Norrison-Knudsen	IA J372 M M483
Dowa Dowty	IA J080 IA J321	Gilson Co. Glencar Exploration	M JES IA J194	IA J196 MF J292 I	A J337	Mt. Goldsworthy Mining Associates	IA J441
Dredge Plant (Mining)	м J159	Golconda Winerals	IA J177	Kane-May Ltd.		MRS Mfg. Co.	A W046

MS International	IA MF	J409 J167	PMB Weserhutte	IA M	J372 M579	St. Helena	MP	J049 J274	Umal Consolidated UNC MAP Division UNC Management	ME	J143
	IA	J270	Phelps Dodge IA J095 MP J113	MF	J079 J197	St. Joe Minerals IA J320 IA J339	IA	J196 J354 W230	Union Carbide Corp.	IA	J167 J389 J116
N			,IA J211 WW J313 WF J375	IA	J338 J408 J014	St. Joe Resources Salford Electrical Instruments	A	J368	Union Explosivos Rio Tinto Union Tin Mines	MF	J215 J097
Natal Coal	MF.	J167	Philip Gray and J. Gray	ME	M389	Samantha Exploration	IA	J078	Unisel	MF	J012
National Coal Board	WW	J004 J277	Phillips Chemical Co. Phosphate Development Corp.	M	1092	Sarhad Development Authority Saskatchewan Mining		M515	Unit Rig	MF	J049 J254
A M376 A M379	IA	J303	(Foskor) Fickands Mather	MF	J067	Development Schramm Inc.	P	M195	IA J287 IA J355 Uranium Pechiney	IA	J372 J371
Meedham Bros. and Brown Ltd.	IA	J428 J248	Pine Point Wines	IA	J339	Seltrust Holdings	IA	J078	U.S. Bureau of Mines	H	J439 M477
NEI International Combustion	IA	J162 J078	Pitcraft Summit	IA	J427 J425	MF J181	MF	J343 J099	Utah International	MP	J049
IA J272	IA	J442	Pittston Co.	MP	J032 J149	Shaft Sinkers (Pty)	IA	J254 N160			
	MF	J082 J358	Placer Development MF J273	MF	J415	Sharples Shell Coal International	IA	J252	643		
	P	M426 J104	Poelain Pohlig Heckel do Brazil SA	A	M032	Sherritt Gordon IA J161 IA J212	MF	J098 J270	V		
Nickel Development Institute	IA	J389	Potash Corp. of Saskatchewan	IA	J078	MF -J324	IA	J354	Vaal Reefs	MF	J067
	IA	J095 J339	Powell Duffryn	IA	J254 J300	Sieger M J159	MIA	J008 J320	Valiant Consolidated	MF	J289 J406
Wityo-Nobel	A	M134 J061	Pragoinvest Foreign Trade Corp.	w	J176	Silver Institute	IA	J319	Venterspost	MF	J031
IA J062 IA J161	MF	J164	President Brand	MF	J065	Skalistiri group	IA	J094	Vickers Keogh	M	J257 J352
IA J319 MF J325 MF J375 IA J386	A	J365 J388	President Steyn	MF	J289 J065	Slope Indicator Co. J. E. Smit & Sons	M	J040 J178	Vickers Research Pty. Victaulic Co.	M	J248 J405
	IA	J408 J144	Preussag AG Metall	MF	J289 M090	Solmine	M	J316 M427	Voest-Alpine	P	M123
North Broken Hill Holdings	MF	J095	IA J321	IA	J427	Sominour	P	M429	Volkswagen Volvo	IA.	J254 J228
North Carolina Phosphate	MF	J445	Prieska Copper Mines Pylos Electronic Development	MF	J097	Sonic Development Corp.	M	M389 J385	Vryheid Coal and Iron	N-	M579 J119
Corp.	P	N195	Co.	M	J208	Sonora Gold Corp.	IA	J253	vryneid Coal and Iron		3119
Northern Engineering Industries	IA	J254		М	M270	Southern Gold Ltd. Southern Goldfields	HF	M011 J166			
Northern Gold	IA	J251 J130	a			Southern Peru Copper	IA	J386 J147	W		
IA J286 WF J374	IA	J388	Quebec Cartier Mining	IA	J231	South Roodepoort	MF	J031	**		
	MF	J395 J098	Queen Margaret Gold Mines Queenstake Resources	MF	J359 J144	Southwaal Holdings	MF	J257 J289	Wabco	A	M319
	IA	J430 J230		MF	J164	Spargos Exploration Sprengnether Instruments	IA	J440	Wagner Wankie Colliery	A	M438 J357
WEITHOLD MUNICIPAL	144	0830	Quinterra Resources	IA	J301	Inc.	M	J228	Warren Spring Laboratory Watts, Griffis and McOuat	AW	J436 M538
0			R			Standard Metals Corp.	IA	J009 J078	Westar Mining	MF	J167
Gahbridge	MF	J165	Ranchers Exploration and			STEAB Stearns-Roger World Corp.	H. IA	M091 J179	West Coast Holdings West Driefontein	IA	J353 J111
Occidental Petroleum Corp.	IA IA	J112 J252	Dev. Corp. 1A J028 WF J149	MP	J015 J198	Stilfontein	MF	J049	Western Areas ME J234 MF J237	MF	J050 J275
Ok Todi	IA	J078	Randfontein Estates	MP	J050	MF J235 Straits Trading Co.	MF	J274 J416	Western Deep Levels	MF	J067
	MER	J332	Rand London Corporation	MP	J275	Stuart Turner Ltd.	M	M479 J093	Western Holdings	MF	J289 J065
Organismo Latinoamericano de	IA	J112	Rand Wines	MF	J049	Sumitomo Metal Mining IA J127 NW J156	IA	J286	Western Mining	MF	J289 J098
2	A	M219	Raymond Kaiser Engineers	IA	J274 J126	Sunshine Mining	MF	J182 J415	Western Ventures	IA	J177
	IA	J145 J194	Remison Goldfields	IA	J078 J148	Survey & General Instrument	H	M397	Westfalia Luenen Group Westfield Minerals	IA MF	J303 J395
Olding Madda 600	IA	J440	Republic Steel	IA	J010	Swedengineers AB Swedish Mining Research	_	M096		MF	J431
	IA	J092 J370	Rexnord Inc.	MF	J097 J352	Foundation Synthetic Fuels Corp.	A	M134	Westmin Resources	IA MF	J213 J239
Outokumpu	M	J008 J091	Reynolds Metals IA J127 IA J146	MF	J082 J166	IA J177	1636	J265	West Rand Cons.	MF	J049 J274
P M123 W W173	IA	J271	IA J178	IA	J212	-			Whim Creek Consolidated	MF	J150 J332
M J300 MP J374	IA	J426	Richard Mozley Ltd. IA J213	M	J040 M266	т			Whitney & Whitney	M	J439
_			Richards of Leicester	M	M391 J439	Tamirisch	м	M095	William Jones T. E. Williams & Son	M	J438 J059
-			Rio Algom	IA	J178	Talisker Rockbreaker	P	M514	Wilson Manufacturing Co.	M	M171
	MF	J131	Rio Tisto Minera	IA	J353 J442	Services	M	J229 M009	Windsor Resources Wingrove & Rogers	IA	J440 M173
	HCP HCP	J097 J326	Rio Tinto Zimbabwe	MP	J373	Tatabanya Collieries Taylor Instruments	P	M481	Winkelhaak MF J049	MF	J012 J275
	IA	J162 J031	Rio Tinto-Zinc MF J257 MF J304	ME	J306	Teck Corporation IA J061 MF J064	MF	J051 J150	Wirtgen GmbH	M	14272
MF J217 1A J230	IA	J426	Robertson Research Group	M	J445 J076	MP J374	MF	J415	Witwatersrand Nigel	MF	J065 J257
	IA	J011 J063		M	11397	Terex Corporation N M091 A M319	A	M046 J321	Wolf Safety Lamp Co. Wolverine Corp.	IA	J063
F. W. Payne & Son	M MW	J091 J071	Rosario Dominicana	MF IA	J097 J160	Terramar Resource Corp.	IA	J339 J026	Woodsreef Mines	MW	J138
Pechinev	MP	J129	Rotheroe & Mitchell	IA	J271 J011	IA J270 IA J301	IA	J337			
IA J287 WF J343	IA MF	J353 J199	RUC Mining Contracting Co.	H	J269	Thai-Swedish Mining Co. Toyoha Mining	IA	J252 J230			
Pennzoil 1	MF	J375	Rustenburg Platinum	MF	J065 J286	Tronoh Mines	MF	J429			
Perard Torque Tension	H	J192 M482		A	M533	Tweefontein United Collieries	MF	J082	Z		
Perusyhtyma Oy Petrofina	M IA	J424 J196	8						Zambia Consolidated Copper	м	J076
Pettibone Corp.	H	J336				U			IA J112 MF J182	M	M265
Pezamerica Resources Corp.	M	J384 J448	Sabina Industries	IA	J083 J092	UC Investments	MP	J099	Zambia Engineering Services Zonge Engineering	IA M	J079 M092

## MINING journal vol.303

MINING magazine vol.151

JULY-DECEMBER

#### CONTENTS

Metals and Minerals Page 1 Article D Mining Digest Countries E Editorial Page 4 Highlights Industry in Action **Methods and Machines** Page 7 Companies and Other

Page 10

#### INDEX CLASSIFICATION

Letters N **Notes and Comments** Methods and Machines 0 Obituaries ME Company Meetings Panorama MF Mining Finance **Book Raviews** MW Mining Week S Metal Markets

This combined index covers the complete editorial content of both Mining Journal and Mining Magazine. Additional copies may be obtained from the Subscription Department.

#### **Metals and Minerals**

**Public Bodies** 

#### ALUMINIUM

New Comex aluminium plan Aluminium production up in	S	J00
Venezuela	IA	J01
A changing rationale?	MM	J02
Shell shows Alumar concern	IA	J02
IPAI stocks up	IA	J02
India: aluminium surplus		
likely	IA	J027
VAW cutback	IA	J027
Accord reached on Valco		
power charge	MM	J037
Oversupply overshadows		
aluminium	S	1039
Agreement on Alumar potline	IA	J042
Cutback for Consolidated		
Aluminium	14	J042
Kaiser keeps Chalmette		
closed	IA	J043
Aluminium fals to respond	S	J058
Reynolds cuts back	I.A.	J061
Pechiney cuts back	IA	J061
Portland smelter project to		
resume	MW	J073
Reynolds moves into Canadian		
can market	IA	J078
Alumar smelter expansion	MA	J089
Aluminium uncertain	S	J092
Alpart to reopen	IA	J115
Aluminium sales Portland contract awarded to	IA	J115
Bechtel	IA	J115
Aluminium continues to	LA	3112
wallow	S	J126
Alumar now open	IA	J130
Aluminium stocks	IA	J131
More cutbacks required	MN	J141
Venalum considering	100	0 2 4 2
expansion	IA	J149
Furtner cutbacks by Kaiser	EA	
Japanese aluminium	IA	J150
Aluminium lurches	S	J163
Aluminium smelter for W.A.?	IA	J167
Government optimism for		
aluminium	HW	J177
Portland smelter	IA	J186
New alloy for Alcoa	IA	J186
Alcoa cut-back	IA	J186
Alumina enquiries to India	IA	J187
New loan for Nalco alumina		
project	MW	
Alloy production increasing	IA	J201
Aluminium revival signs	S	J219
Alumax cuts back	IA	J225
Jamaican/Colombian joint		J225
smelter	EA	

VAW aluminium cutbacks	IA	J243
Aluminium under pressure		J254
Kurri Kurri postponed	IA	
Aluminium decline halts	S	
Portland smelter revived	IA	
Japanese buying boosts	8.79	0411
aluminium	S	J291
Aluminium bulls think again	S	J307
Reynolds idles Al plant	IA	J310
Taiwan cancels aluminium	zn.	2210
venture	IA	J311
Aluminium remains volatile	S	J323
Alcan shelves Kemano plans		J323
ASV announces cutbacks	IA	
Alcan follows suit		
	IA	
Aluminium stocks rise		J343
Griffin joins consortium for		
Al smelter	IA	J345
Norway - Al cutbacks		
continue	IA	J346
Alba expansion	IA	J346
Asahan smelter at full pace	IA	J347
Aluminium fails to shine	S	J358
Aluminium steady	S	J375
Alcoa juggles potlines	EA	J380
BHP withdraws from W.A. Al		
smelter project	IA	J400
Martin Marietta closes		
smelter	IA	J400
Long term pessimism for		
aluminium	S	J415
Production costs set to rise	MW	J428
Further closures urged for		
Japan's Al industry	IA	J434
Efim Al cutback	IA	J452
Work resumes on Australian		
aluminium smelter	P	M557
ANTIMONY		
Antimony smelters seek		
tariff abolition	IA	J012
Lake George resumption	IA	J114
Lake George antimony		
reactivation	IA	J223
Chinese antimony boost	WW	J272
Guatemala: renewed		
production	IA	J381

ASBESTOS Penge exceeds the limit Asbestos promising Asbestos trade

#### 8

Jamaica: mining prompects on the rebound and triangle coal short and a survive plans on the rebound and the re	BAUXITE			Canadian coal pr
Smardial an bauxite plans IA J056 Ediga Colliery Sardials hauxite plans IA J056 Ediga Colliery Sardials hauxite IA J056 Ediga Colliery Sardials hauxite IA J056 Ediga Colliery Sardials Sardials hauxite IA J056 Ediga Colliery Sardials Sardials hauxite IA J056 Ediga Colliery Sardials	BAUXITE			rises
on the rebound Sardinian bauxite plans IA Jo26 Guyana bauxite output IA Jo26 Guyana bauxite output IA Jo26 Jamaican bauxite IA Jo26 Indian bauxite IA Jo27 Indian bauxite IA Jo28 Indian bauxite IA Jo29 Indian bauxite IA Jo21 Indian bauxite IA Jo22 Indian bauxite IA Jo22 Indian bauxite IA Jo23 Indian bauxite Indian bauxite IA Jo23 Indian bauxite IA Jo23 Indian bauxite Indian bauxite IA Jo23 Indian bauxite IA Jo23 Indian bauxite Indian bauxite IA Jo23 Indian bauxite Indian bauxite IA Jo23 Indian bauxite Indian bauxite IA Jo23 Indian bauxite Indian	Jamaica: mining prospects			
Sardinian bauxite plans (Guyans bauxite output 1A Jo26 (Guyans bauxite output 1A Jo26 (Large output 1A Jo26 (L		50%	J004	
Guyana bauxite output Jamaican bauxite E.E.C. loan for Guyana I A J086 L.E. energy see E.E.C. loan for Guyana I A J086 L.E. energy see E.E.C. loan for Guyana I A J086 L.E. energy see I A J087 E Busite talks for Ghana I A J149 Bauxite talks for Ghana I A J149 Bauxite talks for Ghana P MISS Bulgarias I A J187 E Busite resident Bauxite talks for bauxite Bauxite jalumina in Perspective Control of waters Hungarian Prin boom after for bauxite Bauxite: Jamaica counts the Control of waters Hungarian Frail increase bauxite Bauxite: Jamaica counts the Control of waters Hungarian Bauxite: Jamaica counts the Control of waters Hungarian Frail bauxite: Jamaica counts the Control of waters Hungarian Frail bauxite: Jamaica counts the Control of waters Hungarian Frail bauxite: Jamaica counts the Control of waters Hungarian Frail ancrease Bauxite: action wp the Corinoco BERYLLIUM  Beryllium deposit at Thor Lake, Canada  P MI66  CHROME  Indian chrome ore for Japan Frail anchedule Continuous miners for Japanese coal tu Jose Chromite, platinoids, gold and moly in the Smrtians  Bottwann's rail South African-made Continuous miners for Abrasive coal Australian coal study Bullmoone: one million I J012 Screens for Quintette I J012 Servens for Quintette I J013				
Jamaican bauxite E.E.C. Loan for Guyana IA J056 Indian bauxite IA J114 Illian bauxite IA J116 Illian bauxite IA J116 Illian bauxite IA J116 Illian bauxite IA J116 Illian bauxite IA J117 Illian bauxite III bauxite II				
E.E.C. loan for Guyann IA J096 Indian bauxite IA J114 Bungarian bauxite IA J167 Bauxite/alumina IA J167 Bunxite/alumina IA IA J167 Bunxite/alumina IA J167 Bunxite/alumina IA J173 Bunxite/almaica counts the cost Bunxite/almaica counts the Cost Cost IA J173 Bauxite/almaica counts the Cost Cost IA J173 Bunxite/almaica Counts the Cost Bunxite/almaica counts the Cost Cost IA J173 Bunxite/almaica counts the Cost IA J173 BERYLLIUM Beryllium deposit at Thor Lake, Canada  CHROME Indian chrome ore for Japan IA J173 Bana River update Zahivani to reopen Bunxite/almaica Counts IA J202 Zahivani to reope				
Indian bauxite Hungarian bauxite Venezuela to develop Lon Pijiguaon bauxite? Hungarian in perspective Bauxite/alumina in perspective Bauxite men Prin boom miner for bauxite Bauxite: Jamaica counts the control bauxite Brazil increases bauxite Habauxite: Jamaica counts the Corresponable Hungarian in Beryllium Beryllium Beryllium Beryllium deposit at Thor Lake, Canada Pullian deposit				
Bungarian bauxite Bauxite talks for Ghana Machine mining of bauxite cap rock in Australia Vener China and Prevention of electronia process Vener China and Prevention of electronia properties Piliguation bauxite Piliguation bauxite Bauxite Jumina in perspective Control of water is Hungarian Pais bauxite mines Bauxite Jamica counts the Bauxite Jamica counts the Bauxite Jamica counts Brazil increases bauxite Frazil increases bauxite Frazil increases bauxite Brazil increases bauxite Frazil increases Frazil incre				
Bausite talks for Ghana IA J149  Machine mining of bauxite cap rock in Australia P Cap rock in Cap roc				
Machine mining of bauxite caprock in Australia P Venezuela to develop Lon Piligunos bauxite? IA J167 IRANS JULIUM Paris Description of the state of				
cap rock in Australia P M082 Venezuela to develop Lon Pijiguao bauxite?  Pijiguao bauxite?  Control of water in Hungarian bauxite sinen P M162  Control of water in Hungarian bauxite sinen P M162  Bauxite: Jamaica counts the Control of Water in Hungarian bauxite sinen P M163  Brazil increases bauxite  Bauxite: Jamaica counts the Control of Water in Hungarian Increases bauxite  Bauxite: Jamaica counts the Control of Water in Hungarian Increases bauxite  Bauxite: Jamaica counts the Control of Water in Hungarian Increases bauxite  Bauxite: Jamaica counts the Control of Water in Hungarian Increases bauxite  Bauxite: Jamaica Counts the Control of Water in Hungarian Increases bauxite  Bauxite: Jamaica Counts the Control of Water in Hungarian Increase Incre		***	02.40	
Venezuela to develop Lon Pijiguaon bauxite? Bauxite/alumina in perspective The bauxite sines Prin boom miser for bauxite Bauxite: Jamaica counts the continuous misers for bauxite Bauxite: action up the Orinoco WW J427  BERYLLIUM  Beryllium deposit at Thor Lake, Canada  P M166  CHROME  CHROME  Ladian chromic ore Lake, Canada  P M166  CHROME  CHROME  CHROME  Bauxita chromic ore Lake, Canada  P M166  CHROME  CHROME  CHROME  Bauxita chromic ore Lake, Canada  P M166  CHROME  CHROME  CHROME  CHROME  Bauxita chromic ore Lake, Canada  P M166  CHROME  CHROME  CHROME  Bouthard Thor Lake, Canada  P M166  CHROME  CHROME  CHROME  CHROME  Bouthard Thor Lake, Canada  P M166  CHROME  CHROME  CHROME  Bouthard Thor Lake, Canada  P M166  CHROME  CHROME  CHROME  Bouthard Thor Lake, Canada  P M166  CHROME  CHROME  CHROME  Bouthard Thor Lake, Canada  P M166  CHROME  Bouthard Thor Lake, Canada  P M166  CHROME  CHROME  COAL  Japanese coal to Tanasawa coal; te Tana		D	MARS	
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perspective   N   173   Coal   Title   N   173   Coal   Co		2.75	0.00	
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Bauxite: Jamaica counts the cost of the co				
COAL  Brazil increases bauxite  Frazil increases bauxite  Frazil increases bauxite  Frazil increases bauxite  IA J401  Bauxite: action up the Orialoco  BERYLLIUM  Beryllium deposit at Thor  Lake, Canada  CHROME  Indian chrome ore for Japan IA J131  Indian chrome ore for Japan IA J131  Pakistan chromite ove Ramu River update  Zahivani to reopen Chromite, platisoids, gold and moly in the Sherilards  Bouth African-made continuous miners for abrasive coal  Australian coal study  Bouth African-made continuous miners for abrasive coal  Australian coal study  Bulliani acul study  Australian coal study  Bulliani acul study  Bulliani acul study  Bulliani acul study  IA J012  Cream Coal condens  Tavanami acul study  IA J011  Canadian coal study  IA J012  Coal condens  Tavanami acul study  IA J011  Canadian coal  Ocal politics  Coal politics  Coal politics  Coal politics  Coal politics  Coal condens  Tavanami acul study  IA J011  Canadian coal  Ocal politics  Coal politics  Coal politics  Coal politics  Coal politics  Tavana coal unco			Marin.	Coal strike impa
BERYLLIUM  CHROME  Indian chrome ore for Japan Pakistan chromite ore Indian cols a town on the part of the par			Trans.	
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Bauxite: action up the Orinoco  BERYLLIUM  BERYLLIUM  Beryllium deposit at Thor Lake, Canada  CHROME  Indian chrome ore for Japan IA J320  Ramu River update  Zahivani to reopen  Eamu River update  Zahivani to reopen  Shetlands platinoids, gold  Shetlands platinoids, gold  Shetlands platinoids, gold  South African-made  continuous miners for abrasive coal  Australian coal study  Bulls platinoids red platinoids and platinoid			****	Chinese coal out
Bausite: action up the Orisono MW J427  BERYLLIUM  Beryllium deposit at Thor Lake, Canada P M166  CHROME  Light Creek hope Chromite, Data and Botawans's rail semilifrons with the Chromite, Platinoide, gold and moly in the Smetlands P M159  COAL  South African-made continuous miners for abrasive coal attrailas coal study Bullmoone: one million M J008  Australian coal study M J008  Australian coal study M J008  Streems for Quintette M J012  Streems for Quintette M J013  Streems for Q				Obed Marsh shipm
BERYLLIUM  Beryllium deposit at Thor Lake, Canada P  CHROME  Indian chrome ore for Japan IA J131		IA	3401	Sales at Snap Cr
BERYLLIUM  Beryllium deposit at Thor Lake, Canada  CHROME  Indian chrome ore for Japan Pakistan chromite ore Ramu River update Zahivani to reopen Rome The Continuous miners for abrasive coal in the continuous miners for abrasive coal study Bullsmillian coal study Bullsm				Funding problems
BERYLLIUM  Beryllium deposit at Thor Lake, Canada  CHROME  Indian chrome ore for Japan IA J131  Pakistan chromice ore IA J202 Ramu River update Ramu River u	Orinoco	MA	3427	
Beryllium deposit at Thor Lake, Canada  CHROME  Indian chrome ore for Japan IA Jili Pakistan chromite ore II Japan Pakistan chromite ore II Japan Chromite, platinoide, gold and moly in the Shrklands  Bouth African-made continuous miners for abrasive coal Lignite and coal project Coal for develor Tablasman Work for the Coal for develor Coal Indian Chromite, platinoide, gold and moly in the Shrklands  Bouth African-made continuous miners for abrasive coal Lignite and coal Machine project Coal for develor Tablasman Coal for develor Tablasman II River coal Japanese coal in Taiwas case unce Coal politics Coal politi				Cutbacks at Kemb
Beryllium deposit at Thor Lake, Casada  CHROME  CHROME  Pakistan chromite ore 18 J202  Pakistan chromite ore 18 J202  Zahivani to reopen Chromite, platinoide, gold and moly in the Sherikands  COAL  South African-made continuous minere for abrasive coal Australian coal study Bullmoome: one million	DEGVILLINA			Iranian coke
Beryllium deposit at Thor Lake, Canada  CHROME  Indian chrome ore for Japan IA Jisi Pakistan chromite ore IA J202 Ramo River update Zahiwata chromite ore IA J202 Ramo River update Zahiwata chromite ore IA J202 Ramo River update Zahiwata coeposation Among the platinoids, gold and moly in the Shrklards  COAL  South African-made continuous miners for abrasive coal Australian coal intuly Bullsmin coal intuly River coal Australian coal Japanese coal is Taiwan coal unco	DENTLLIUM			Leigh Creek hope
Beryllium deposit at Thor Lake, Canada  CHROME  Indian chrome ore for Japan IA Jisi Pakistan chromite ore IA J202 Ramo River update Zahiwata chromite ore IA J202 Ramo River update Zahiwata chromite ore IA J202 Ramo River update Zahiwata coeposation Among the platinoids, gold and moly in the Shrklards  COAL  South African-made continuous miners for abrasive coal Australian coal intuly Bullsmin coal intuly River coal Australian coal Japanese coal is Taiwan coal unco				China cuts coal
CHROME  Indian chrome ore for Japan IA J131 Pakistan chromite ove IA J202 Ramu River update W J202 Ramu River update W J202 Rami Vani to reopen IA J362 Chromite, platinoide, gold and moly in the Shwitands P M559  COAL  COAL  South African-made continuous miners for abrasive coal autralian coal study IA J011 Australian coal study IA J011 Australian coal study IA J011 Canadian coal coal coal coal coal coal coal coal				Australian coal
CHROME  Indian chrome ore for Japan IA J131  Pakistan chromite ore IA J202  Rama River update with J202  Rama River update and coal Samt to expure the Coal IA J202  Rama River update with J202  River J202  Riv	Lake, Canada	P	M166	Botswana's rail
Ligaite and coal last to expend and many last to expend and many last to expend and many last to expend and moly in the Smert last shows the same fiver update and moly in the Smert last shows the same fiver last shows the same				amb S.V. Forms
Indian chrome ore for Japan IA J131 Pakistan chromite ore IA J202 Ramu River update W J320 Zahivani to reopen IA J320 Zahivani to	CUBOME			Victoria's brown
Indian chrome ore for Japan IA J131 Pakistan chromite ore IA J202 Pakistan chromite platinoide, gold and moly in the Shrklands P M559  COAL  South African-made continuous miners for continuous miners for abrasive coal in Taiwas coal uncertainty Australian coal study Australian coal study Australian coal study Australian coal study Australian coal japanese coal in Taiwas coal uncertainty Australian coal study Australian coal support in Australian coal japanese coal in Taiwas coal uncertainty Australian coal japanese coal in Taiwas coal uncertainty Australian coal australian coal support in Taiwas coal uncertainty Australian coal japanese coal in Taiwas in Taiwas coal uncertainty Australian coal japanese coal in Taiwas in Taiwas coal uncertainty Australian coal australian coal japanese coal in Taiwas	CHROME			Lignite and coal
Indian chrome ore for Japan IA Ji31 Pakistan chromate over 18 J322 Pakistan chromate over 18 J322 Project Curragh coal Chromite, platinoide, gold and moly in the Smetlands pold and moly in the Smetlands P M559  COAL  South African-made continuous miners for abrasive coal and platinoide and moly in the Survey of the Coal Japanese coal is platinoide; one million IA J012 Bullmoome: one million IA J012 Screems for Quintette IA J012 Import Coal Import Coal Screen Survey Coal Import Coal				sat to expan
Rams River update Zabivani to reopen Labivani to re				Credit for Chine
Ramu River update  Application to reopen IA J320 Chromite, platinoids, gold and moly in the Bone IA South African-made continuous miners for continuous miners for continuous miners for Bullmoore, one million tonnes  Streems for Quintette  Lamber 1 J320 Curragh coal street IA J320 C				
Zahivani to reopen Chromite, platinoide, gold and moly in the Sheritards  COAL  COAL  COAL  South African-made continuous miners for abrasive coal Australian coal study Bullanian coal study Bullanian coal study Bullanian for quantities Coal politics Coal for develog Coal for				Curragh coal sta
Chromite, platinoide, gold and moly in the Sheritards P M559 Sheri		XA	J362	Coal for develop
and moly in the Moreitands P M559 More Greek light Tablement coal? Tablement coal? Hill River coal to Moreitands make continuous miners for abrasive coal and Jone Coal politics Australian coal study IA Joil Canadian coal Bullmoome: one million IA Joil Canadian coal Screems for Quintette IA Joil Mydraulic showed				
COAL  South African-made continuous miners for authors one million tones to me million tones for Quinctte II Jolz Screens for Quinct				
COAL  South African-made continuous miners for abrastive coal Australian coal Japanese coal is Australian coal Australian coal study Bullsmoose: one million tonness Coal politics U.K. coal import Canadian coal U.K. coal import Foland Screens for Quintette II J012 J013 J013 J013 J013 J013 J013 J013 J013	Short Lands	P	M559	
COAL South African-made continuous miners for continuous miners for abrasive coal in Taiwan coal uncarrains coal study have coal in Taiwan coal uncarrains coal study for the coal importance of the coal coal coal coal coal coal coal coal				
South African-made Japanese coal is continuous miners for abrastive coal M J008 Coal politics Australias coal study IA J011 Canadias coal sulmones one million U.K. coal importance for Quintette IA J012 Mydraulic above	COAL			
South African-made Japanese coal is continuous minere for Taiwan coal unce brasive coal and Jobs (Coal politics Australias coal study IA Joil Canadias coal politics coal coal coal coal coal coal coal coal	COAL			
continuous miners for abrasive coal unce abrasive c	South Madage and			
abrasive coal M Joos Coal politics Australian coal study IA J011 Canadian coal Bullmoose: ose million tonees Screens for Quintette IA J012 Hydraulic shovel				
Australian coal study Bullmoose: one million tonnes 1A J012 Screens for Quintette TA J012 Bydraulic shovel		M	1000	
Bullmoose: one million U.K. coal import tonnes IA J012 Poland Screens for Quintette IA J012 Hydraulic shovel				
tonnes IA J012 Poland Screens for Quintette IA J012 Hydraulic shovel		44	Juli	
Screens for Quintette IA J012 Hydraulic shovel		**	TOTO	
Lake drained for coal mining IA J027 coal simulations				
	Lake drained for coal mining	IA	J027	coal aims

Canadian coal production		
rises	FA	
Australian coal exports	IA	1038
Smoky River shutdown	IA	
Gedling Colliery contract	IA	
Japan: coal liquefaction	IA	
Coal shortfall for Turkey	EA	J062
U.K. energy secretary says		
stocks sufficient	Al	J062
U.K. fluidized bed coal	_	
combustion project	P	M006
The Bullmoose project	A	M012
Prevention of explosions in	_	
Bulgarian coal mines	D	8908
Kaiser coal for Japan	IA	J078
Lignite remains crucial for	WW	1000
F.R.G.	IA	
Coal slurry for China	LA	2094
El Cerrejon ahead of	IA	J094
schedule	MA	
Coal strike impasse	IA	
Meekatharra finds contractor	IA	
Coal to Lethabo		J114
Chinese coal output	EA	
Obed Marsh shipment	AZ	
Sales at Snap Creek	1.8	2114
Funding problems for El Cerrejon	NAME OF	J123
Cutbacks at Kembla		J124
Iranian coke		J129
Leigh Creek hopes		J130
China cuts coal price		J131
Australian coal for Korea	IA	
Botswann's rail and coal		
ambilions	M	J137
Victoria's brown coal plans	MW	J140
Lignite and coal consumption	_	
set to expand	MW	J141
Credit for Chinese coal	-	
project	Al	J148
Curragh coal start	IA	
Coal for development		
corporation	EA	J150
Japanese coal talks	IA	J150
More Greek ligaite	IA	J166
Tanzanian coal?	IA	J166
Hill River coal	IA	J185
Australian coal for China	IA	J186
Japanese coal imports	IA	J187
Taiwan coal uncertainty	IA	
Coal politics	IA	J187
Canadian coal	IA	J224
U.K. coal imports from		
Poland	TA	J225

								****			
Coal seams find in India South African coal expansion	IA	J242 J243	Discovery of the Neves-Corv copper-size-lead			Reid mine update Cunningham Creek programme	IA	J026 J026	South African gold output CIP plants is Australia	P	J224 M167
Indian coal figures up Japanese steel mills in	IA	J243	deposit, Portugal A shot across the bows	D	M151 J161	Forsayth gold production plans	IA	J026	Recovering gold with thioures		W237
price talks with Bullmoone	**	1944	Japanese copper search in	-		Pamour Porcupine suspension Krugerrand sales up	IA	J027 J028	Lost opportunities	HH	J236 J242
Quintette exports	IA	J244 J244	Dominican Republic Winston Lake progress	IA	J167	U.S. gold statistics	IA	J028	Haitian gold find North Flinders examines		
Pit potpourri Tanzania to step up coal	Ж	J249	Copper figures Typhoon Ike flooding	IA	J167	Kaneiri dredge offered for sale	IA	J028	Granites Cannon increases momentum	EA	J242 J243
production Chinese coal plant complete	IA	J258 J258	Chilean mine explosion Copper - Reagan rejects	IA	J167	Gold stumbles along Kanowaz Deep Leads	SIA	J039 J042	Great Victoria dedication Pueblo Viejo increased	IA	J243
Curragh coal sales	IA	J260	calls for U.S. import	MW	J175	Gold production schedule for Sullivan mines	IA	J042	THREFTED.	EA	J258 J258
Total shutdown of U.K. coalfields in prospect	MW	J269	LME copper contracts - no			Fimiston mine expansion	IA	1043	Thailand awards gold rights Mount Skukum opportunity for	P	
Steam trade improves Anglovaal sitting on coal	IA	J271 J276	Change White Pine closure?	B	J179 J186	Gold sector set to expand in	MA	J057	Erickson Open cut tests at Homestake	IA IA	J258 J258
Jining sampling Coal development for KwaZulu	IA	J276 J277	Chilean disruptions Polish copper for Japan	IA	J186	Thailand gold licences California gold programme	IA	J061 J061	Pine Creek go-ahead Palmer River deposit	IA	J259
Lyach mines sales	IA	J279	Low copper prices contribut		J216	Ecuador gold Ok Tedi start-up: gold on	IA	J061	Silver Dyke preliminary	IA	
Dawdon Colliery coal loading project	IA	J279	to peso devaluation Bagdad decision soon	3636	J217	schedule, copper will	_		Rio Chiquito prospect for		
Australian coal success Lignite expansion for India	IA	J296 J296	Khetri copper complex Copper smelters resist high	A	M183	be delayed Rosa Maria - a small copper-	P	M005	Mallon Red Hill interest revived	IA	J276 J276
Bullmoone males Energy cost savings with	IA	J296	Concentrate prices Optimism for copper	S	J235 J239	gold mine in Peru Galtee More encouraging	P	M007	Old development aids Cous Creek	TA	J276
coal-water mixtures	P	M291 J309	Zambia raises copper	S	J254	grades Ketza River drilling	IA	J077 J077	New gold plant for Harmony	IA	J277 J277
Argentina plans lignite mine Pit closure pitfalls	N	J317	Benguet copper exports			Golden Crown more reefs	IA	J077	Lacana/Westley prospect Conscience delays Sonora	IA	J277
Teck agrees sew Bullmoose contract terms	ww	J320	suspended Brazil's refined copper	IA	J259 J259	Big Bell costs revised Waverley plant expenditure	IA	J077 J077	Lac Shortt dedication Chinese pot of gold	IA	J279 J294
Chinese coal mine floods Peko to close Pelton	IA	J347 J347	Rutile distribution as guide to porphyry copper	MM.	J290	S.A. gold Gold price affects	IA	J078	Dumagami expectations Mungana hopeful	IA	J294 J294
Carnaux alternative	IA	J347	Environmental controls at	P	M289	Philippine production Rich Reward in Australia	IA	J078 J089	New gold plant for RMP	IA	J295
Australia/Indonesia coal deal	IA	J347	Tverrfjellet, Horway Copper gains confidence	3	J307	Cameron Lake: further	IA	J094	McCabe proposal Teck-Corona's Hemlo project	IA	J295
Lower prices for Australian coal/iros ore	NW	J355	Copper wobbles Smelting arrangements for	8	J323	drilling Dome begins further drilling			on schedule Enasen - a new open pit gold	P	M286
Demand prospects uncertain Histon deal for Esso/	HEW	J356	Cyprus Bagdad Copper slides too	.IA	J329 J343	at Long Lac Central Kalgoorlie buys	IA	J094	mine in Sweden Apex Mountain survey	A	M298 J309
Porcupine	IA	J361	Omani copper situation Duval's Sierrita boost	IA	J346	stake in gold prospect Guyanese gold for Noranda	IA	J094 J094	Foley Ridge proposal	IA	J309 J309
	IA	J380 J381	Hayden face lift	IA	J346 J346	Paringa upgrades reserves	IA	J094	Broad Arrow plant progress CVRD's Araci on stream	IA	J310
Coal production nears at New Vani	P	M373	Twin Buttes curtailment North American vulnerability	IA	J347	Quail and Gopher Hill exploration programme	IA	J094	Alluvial bids for Brazil Zimbabwean gold support	IA	J310
Products from brown coal - G.D.R. outlines plans	P	M377	to Latin American exports	MW	J357	Cordova Mines option Forsayth gold development	IA	J094 J094	delay Sons of Gwalia	IA	J310 J310
Difficulties will delay	-		Copper strengthens	S	J358	Kalgoorlie meeting Bamboo Creek update	IA	J095 J095	First gold mine for Geodome	IA	J311
Selby Coal search for Czechs	IA	J393 J399	Further Ok Tedi delays Copper strides on	S	J373 J375	Boddington gold prospect	IA	J095	Rehabilitation of old gold mines	MW	J320
NSW coal disruption H & P fluid bed	IA	J419 J419	Homaka mine and smelter	A	M414	Horseshoe Lights mining to	IA	J095	Gold loses the glister More gold for Inco?	IA	J321 J327
Huangpu coal terminal Balmer coal agreement	IA	J419	Japanese smelters Amacan copper mine, the	A	M430	Portman doubles gold production	IA	J095	Drilling planned for Madre Tanzanian prospecting jv	IA	J327 J327
a province	IA	J419	Philippines	A	N471	Canadian Barranca on schedule	IA	J095	Caris investigates Windanya Edjudina revived	IA	J327 J327
Shanxi Province coal	IA	J428 J434	Freeport Indonesia goes underground	A	M481	Mine plans in New Zealand Boost for bullion	MW	J109. J110	Guyana - gold dredging plans	IA	J329
	IA	J434 J434	Copper loses momentum Copper stocks dwindle	8	J395 J431	Queenstake Resources	IA	J113	Montauban expansion Bamboo Creek commissioned	IA	J329 J329
Difficult year for Australian	MW	3445	Tintaya start still January Copper is the U.S.S.E.	IA	J434 J441	Bellevue deep lode	IA	J113 J113	S.A. gold facts Progress at Golden Giant	IA	J330 J340
BMCL in New Zealand	IA	J451	Japan negotiates copper			Increased reserves for George Washington	IA	J113	Sallies gives thumbs down to Van Dyk		J341
Danish coal policy	IA	J451	impurts Ecuador - not only oil but	IA	J452	Quebec gold Pinto Malartic Gold	IA	J113 J113	Kolar contraction continues		J342
COBALT			also mining	A	M588	Gold Capital to fund Seattle Gold bids for Petromin	IA	J113 J114	Drilling at Gympie reveals complexity	IA	J345
Sumitomo to restart cobalt		****	DIAMONDS			Lupin raises gold output	IA	J114	Mulwarrie gold update Nigerian gold find	IA	J345 J345
	IA 8	J201 J323	CDN baulks at diamond tax			Trackless equipment at Western Deeps	MM	J124	Sanshandao progressing Aquarius on ice		J345 J346
			CSO sales rise	MA	J020 J020	Blackridge gold prospect Squall Lake news	IA	J129 J129	Carolin Mines in the seat Porgera firms up	IA	J346 J361
COLUMBIUM			Diamond board abolition proposed	MW	J056	Rea Gold operations	IA	J129 J129	Problems at Hishikari	IA	J361
Columbium for stockpile	IA	J063	Diamond decline Offshore diamond mining?	IA	J130 J149	Sonora update	IA	J129	Progress at Cannon gold Lacana dedicates Relief		J361
COPPER			Argyle diamond funding	IA	J149		IA	J130 J130	Canyon Gold under pressure	MW	J372 J375
			Government float Aredor project expands	IA	J149 J150	Banbury gold Krugerrand sales	IA	J130 J131	Joubi agreement for Western		J379
Asarco to terminate Tacoma			Aredor - dangling the carat	MA	J160	Ok Tedi responds to gold			Quebec Goldstripe mine imminent		J379
amelting	TA					price factor	MW	J139	Morning Star switches to		J380
Copper - exceptional		J011 J024	Freeport diamond exploration progresses Chang to produce more	IA	J166	Australis new find	IA	J139 J148	onen nit		M427
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Copper - exceptional Copper - exceptional Copper columnations Copper refinery reaches U.K. industry stagnates Strong advance for cooper Bashwan concentrage distant Joins tender Copper little changed Bougainville output falls Copper little changed Bougainville output falls Bougainville output falls Bougainville output falls Copper little changed Bougainville output falls Copper little changed Bougainville output falls Copper little changed Far Anced target Far Indio force majeure Diaputad production resumes Pamar force majeure lifted Copper talks for Chile and OK Tedi start up Roma Maria - a small copper- gold mine in Peru INCC reports some Ingrovement Ingrovement Lambard Compercial Compercial Lambard Compercial Lambard Compercial Lambard Compercial Lambard Compercial Lambard Compercial Lambard Compercial U.S. copper: response to Copper lamps on Percopercians on	SIA MWW SIA IAA IAA IAA IAA IAA IAA IAA IAA IAA	J024 J027 J025 J035 J043 J044 J044 J081 J082 J082 J082 J082 J082 J082 J083 J093 J093 J093 J093 J093 J093 J093 J09	Chank to produce more Chank to prospectors Chank to prospectors Chank to prospectors Chank to prospectors Chank to produce the chank Chank to produce the	IA	J186 J237 J2381 J381 J381 J401 J433 J113 J243 J419 J345 J010 J010 J010 J010 J010 J010	Australis new find Montezuma gold Montezuma gold Montezuma gold Montezuma gold Montezuma Mungana/Amoco studies Chibougamau project for Campbell This government receives Gold output to rise Fest Comst leach project Nigerian gold Goldsil Resources projects Sa. As and the studies of the studies Goldsil Resources projects Goldsil Resources project Gordon Lake ore zone Gold prospecting in Yemen (Adea) Alluvial gold in Peru Lawlers tallings project Griffin's output and sales UP Echo Bay's options stake in Someoner Gold piacer ju in Montana Gold pods for Coronet Gold for Atlas Mallard Lake promising Mallard Lake mobile flotation plant Bick Gulch final feasibility From Ducktz Two Dees jv Ketza River interiar results	IIIAA A A A A A A A A A A A A A A A A A	J148 J148 J148 J148 J148 J148 J149 J149 J149 J149 J149 J149 J149 J162 J166 J166 J166 J167 J167 J167 J167 J167	Hishikari sold mine project No joy for gold Hishing the hill jw Step forward for Big Bell Ht. Leyshon jw Grants Patch tailings Old: Mestern Australia's Old: Mestern Australia's Australia's largest discovery? Ketza River: 1984 results Mickel Plate drilling Cusac claims for Erickson Nova Scotia jw Tillicum Mountain encouraging Raigoorlie buy-in for Doverty to reopen Jamestown reserves up Galtee More ansessment S.A. gold Gold. the brink? Lake Fortune finance planed Burkins Pano dedication Marriage in the Pree State Canadians spearhead new Pelsart wine politics encouraging gold Squall Lake reserves Lady Bountiful jw Links politics jour serves Lady Bountiful jw Links politics politics Lady Bountiful jw Links politics politics Lady Bountiful jw Links politics politics Links politics politics Lady Bountiful jw Links politics politics Links politics politics Links politi	A SIA IIA IIA IIA IIA IIA IIA IIA IIA II	J395 J399 J399 J399 J400 J411 J411 J411 J417 J417 J417 J417 J417
Copper - exceptional copper importe continue copper importe continue copper importe continue copper importe copper importe copper importe copper importe copper importe copper interest in the copper interest copper intil continue copper experience copper plans copper copper continue copper copper copper copper can copper	SIA MWW SIA IIA IIA IIA IIA IIA IIA IIA IIA IIA	J024 J027 J027 J035 J043 J044 J058 J061 J062 J062 J062 J062 J062 J063 M005 M007 J073 J073 J073 J073 J073 J073 J073 J	connection of the control of the con	IA P IA IA IA IA IA IA IA IA IA	J186 J237 J237 J381 J381 J381 J401 J433 J113 J243 J419 J345 J010 J010 J010 J010 J010 J011	Australis new find Montezuma gold discovery Montezuma gold discovery Montezuma discove	IIIAA AMW I AA AAMIIAAAAAA AAAAAAAAAAAAA	J148 J148 J148 J148 J148 J148 J149 J149 J149 J149 J149 J149 J149 J166 J166 J167 J167 J167 J167 J167 J167	Hishikari gold mine project No joy for gold Hishing the state of the st	A SIA IIA IIA IIA IIA IIA IIA IIA IIA II	J395 J399 J399 J399 J400 J411 J411 J411 J417 J417 J417 J417 J417
Copper - exceptional copper imports continue copper interest copper interest copper interest copper interest copper interest copper plans copper expected target copper plans interest copper plans copper copper plans copper copper plans copper copper plans copper plans copper copper copper copper copper copper copper copper plans copper copper copper plans copper copper copper plans copper copper plans copper plans copper copper plans copper copper copper plans copper copper plans copper c	SIA MWW SIA IA A IA A IA A IA A IA A IA A IA	J024 J027 J025 J035 J035 J044 J044 J044 J061 J062 J062 J062 J062 J062 J062 J063 M005 M005 M007 J077 J077 J077 J078 J077 J077 J077 J	chans to produce more dissended to the control of t	IA P IA	J186 J237 J237 J381 J381 J401 J403 J113 J243 J419 J345 J010 J010 J010 J010 J010 J010 J010 J01	Australis new find Montezuma gold discovery BR Canada gold discovery BR Canada gold discovery BR Canada gold discovery BR Canada gold discovery Campbell Thai government receives Gold oursell for Campbell Thai government receives Gold oursell for the State Thai government Sale gold Tredging for gold in the Squeeze on the co-operatives Gordon Lake ore zone Gold prospecting in Yemen (Aden) Alluers tailings project underway Griffin's output and sales BR Campbell Sale gold To the State State Lawlers tailings project underway Coronet Gold prospecting in Montana Gold pods for Coronet Gold for Atlas Gold pods for Coronet Gold for Atlas Male Gold prospecting The Coronet Sale gold The Coronet The Co	IIII I I IIIIII AMI A AAA AAAAAAAAAAAAA	J148 J148 J148 J148 J148 J148 J148 J149 J149 J149 J149 J149 J149 J149 J149	Hishkan open pit Hishka	A SIA IIA IIA IIA IIA IIA IIA IIA IIA II	J395 J399 J399 J399 J400 J411 J411 J411 J417 J417 J417 J417 J417
Copper - exceptional development development Copper imports continue Copper imports continue Copper imports continue Copper imports continue Copper interest in the copper interest in the continue Copper interest in the copper interest in the continue Copper interest in the	SIA IAWWSIA AAAAAAAAAAAAAAAAAAAAAAAAAAAA	J024 J027 J025 J035 J035 J044 J044 J044 J044 J063 J061 J062 J062 J062 J062 J062 J063 M007 J073 J073 J073 J073 J073 J073 J073 J	Cross Stri Lankan gem proposal GOLD  More quartz reefs for Golden Cross seeks Huster Contact Singapore: new gold contract finalized Focus on gold cappuly Supplied Stupping of the product of the golden contract finalized Focus on gold contract finalized Focus on gold cappuly Supplied studies at Pueblo Stupping on the golden cappulation of the golden contract finalized Focus on gold contract finalized Focus on gold cappulations at Pueblo Supplied extudies at Pueblo Supplied captured and cappulations and captured for the golden captured for the gold	IA  P IA IA IA IA IA IA IA IA	J186 J237 J237 J381 J381 J381 J381 J401 J433 J419 J419 J345 J010 J010 J010 J010 J010 J010 J010 J01	Australis new find Montezuma gold discovery BP Canada gold discovery Campbell Thai government receives Gold output to rise Gold output to rise Gold output to rise Side output to rise Side output and side output Side ou	IIIAA A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	1148   1148   1148   1148   1148   1148   1148   1148   1148   1149   11	Hishkan open pit Hishkan open pit Hishkan open dind Hiskkan open d	A SIA IIA IIA IIA IIA IIA IIA IIA IIA II	J395 J399 J399 J399 J399 J400 J411 J411 J417 J417 J417 J417 J417 J418 J418 J418 J418 J418 J418 J418 J418
Copper - exceptional Copper - exceptional Copper columnations Copper refinery reaches Copper refinery reaches U.K. industry signates Strong advance for cooper Strong advance for cooper Monywa concentrates: Mitaui Joins tender Comper little changed Bougainville output falls Cooper little changed Feru: more cooper Poland first half copper Poland first half copper Poland first half copper Disputada production resumes Far Acceded target Goper talks for Chile and Ok Tedi start up Room Maria - a small copper- gold mine in Peru INCC reports some Is ladio Cipec capacity increase Reagan's dilemma LME stocks fall again Asserbations U.S. copper: response to Copper acceded Innovations at BLL smelter Information Information of the cooper Information of the cooper Information of the cooper Coppensor of the cooper Information o	SIA IAWWSIA AIAAIAA IAP POWW IAAWWSIA AWWIIAWWSIA AWWI	J024 J027 J025 J025 J035 J044 J044 J044 J044 J044 J061 J062 J062 J062 J062 J062 J062 J063 M005 J073 J073 J077 J0773 J0778 J077	Consider the contract of the c	IA MW PIA IA I	J186 J237 J237 J381 J381 J401 J403 J113 J243 J419 J345 J010 J010 J010 J010 J010 J010 J010 J01	Australis new find Montezuma gold discovery BP Canada gold discovery Campbell Thai government receives Goldouter to rise Goldouter to rise Goldouter to rise S.A. gold Dredging for gold in the Yukon Squeeze to the co-operatives Gordouter to co-operatives Gold processing project Gordouter to co-operatives Gold prospecting to Yes Economics Gold protein stake in Sonora Lower Soviet sales Gold pods for Coronet Gold for Atias Mallard Lake prosising Falconbridge gold Work starts at Bamboo Creek Sombolls Flotation Rich Gulch final feasibility Brunswick Oil update Two Dees jv Ketzs River interim results Ketzs River interim results Ketzs River interim results Ketzs River interim results Gold price in Zishabwe Solsson gold wenture Rt. Pleasant feasibility Brazilian gold mines update	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	J148 J148 J148 J148 J148 J148 J148 J149 J149 J149 J149 J149 J149 J149 J149	Hishkan open pit Hishkan open pit Hishkan open did Hishka	A SIA IIA IIA IIA IIA IIA IIA IIA IIA II	J395 J399 J399 J399 J399 J399 J400 J411 J417 J417 J417 J417 J417 J417 J417

IRON			MANGANESE			Cominco's innovations at	MW	J195	Brazilian infiltration of East Europe	IA	
Inauguration of Mauritania's			E.E.C. ferromanganese		****	Thailand signs second potash		J277	Brasilias output continues		J358
Guelbs iron ore project		J035	cutback Carajas manganese ahead of		J096	Canada - search for potash investor		J347	to rise Tim's vulnerability	MM	J393 J395
Ferrominera output doubles	MW IA	J057 J057 J062	Foote Mineral conversation GSA awards manganese		J114 J114	Amax is potash venture Potash venture aborted	IA	J399 J417	China Camp tin for Southern Westures Problems in Thailand	IA	J400
Iron ore for Romania? LKAB's game plan Increase in Japanese iron	MM	J063 J072	contract	IA	J363	RARE EARTHS			ITC to maintain status quo Future opportunities for	HE	J420
imports Chinese/Australian iv in the	IA	J079	MERCURY			Rare earths booming Rare earths for Mitsui	IA	J347 J401	timplate	P	MB61
Indian iron ore talks	IA N	J109 J115 J121	Mercury tender	IA	J063	RHODIUM	1.00	2401			
Minerex claim Goa iron ore exports	IA IA	J148 J150	MICA			Rh, Ru price boost	IA	J380	TITANIUM		
Inauguration of the Guelba iron ore project,	p	M081	Mica plant for Kemira	IA	J095	ROCKSALT			Timet delivery problem Pilot plants to develop new	MW	
	MW	J177 J186	MINOR METALS		J027	Salt deposit for China	IA	J258	titanium method Technical/marketing titanium study	M	J201
	IA	J200 J201	Hungary; gallium output Ruthenium takes over Germanium for stockpile	IA IA	J027 J037 J045					_	
	MA	J217 J252	Minor metals perform well Thor Lake discovery	NA E	J053 J057	RUTILE Successful combination for					
Bahrain starts pellet plant Brazil's iron industry	IA IA	J259 J259	Speculative boost for	S	J092 J126	Nord Speedy Coms. Butile	MW IA	J252 J295	TUNGSTEN		
Zambian interest in iron orebody		J294	Buoyant bismuth Bismuth marches on Bull run for bismuth	S	J143 J161	SILVER			Tungsten projects underway French tungsten	IA	7800
Timbopeba iv?	IA	J330 J347	Bismuth surges again Minor metals sparkle	8	J273 J431	Cois plan falters	IA	J012	Expansion programme for Peru Weak market affects Mt.	IA IA	J296
Latin American production rises Kostamus iron expansion	MW	J357 J362	NAME OF TAXABLE PARTY O			U.S. silver Mann claims progress	IA	J028 J113	Pleasant Tungsten find in Brazil Greenland tungsten find	IA	J399
Griffith shutdown	IA	J380 J380	MOLYBDENUM	IA	J011	Silver dawdles A servant of two masters?	S NW	J254 J305	Tungeten mineralization in Greenland	P	M557
Cockatoo Island quiet Aisco pellet plant on stream	IA	J418 J434	Endako reopening considered Molybdenum demand Iranian tender for moly	IA	J078 J260	U.S. disposals face further delays	MW	J306 J329			
Reserve to restart second	IA	J451	Bids for La Caridad moly Consumption improves	IA	J295 J306	High grade at Midway Consolidated Silver jv Silver output to rise	IA	J362 J362			
Mauritania	A	M566	Moly deposit for Colombia	IA	J379	Hecla postpones Revenue mine Silver values for Pacific	IA	J380 J380	URANIUM .		
KAOLIN			NICKEL			Silver in Peru Caribou silver on schedule	DIA	M542 J418	Uranium output rises Maruatuka uranium	IA	J020 J026 J033
		J294	Falconbridge chairman gives nickel warning	IA	J011	*****			Australia opts for uranium Uranium forecast Niger explores new markets	IA	
Freeport kaolin sale	IA	J363	New nickel mine to be opened in Finland	P	M005	SODA ASH			Uranium: Casada in pole position	309	J108
KYANITE			Reserved strength for nickel GSA nickel purchases Base metals hold on	IA S	J074 J078 J092	Fresh move on soda-ash project Australian soda ash study	HW LA	J306 J380	Key Lake profile French uranium	IA	J178 J200
Beneficiation of Lapso Buru kyanite	p	M289	Tin and nickel surge GSA nickel	SIA	J179 J202				Lamprecht transfer Amok onto second phase Uranium in the public eye	IA N	J224 J225 J233
LEAD			New high for mickel Ni-Cal's acid leach process	8	J273	STRATEGIC MINERALS	5		Olympic Dam costs escalate Olympic Dam investigations	ME	J271 J276
	S	J007	for Surigao Nickel? Disruption at Sherritt	MA	J289 J310	Strategic minerals for West Coast Brockman beryllium revision	TA TA	J185 J200	Australia's urasium mountain Cigar Lake update	IA	7384
Lead and zinc firmer Lead and zinc mine	S	J039	refinery Cuban nickel proposals Nickel smelter for China	IA IA	J330 J330			3200	Key Lake exemption Growth for Canada's uranium	IA	
production fails Asarco secures lead supplies	IA IA	J042 J044	Nickel slides Nickel analysis and outlook	S	J343 J353	SULPHUR			Lyadhurst jv Urangesellschaft U prospect Cigar Lake: a major new	IA	
Lead and zinc too	IA S IA	J044 J058 J077	Cerro Matoso at a loss More confidence for nickel	IA	J362 J375	Pakistan sulphur plant Polish sulphur project	IA	J095 J329	Saskatchewan U deposit U.S. monitors imports	P	M373 J439
Karachipampa delayed yet	IA	J095	Surigao back on stream New record for nickel	IA	J380 J431	TIN			E.E.C. long term uranium agreement with Canada		J435
Lead eases back Lead/zinc statistics	SIA	J110 J130	Punta Gorda on stream More Soviet nickel males to Japan?	IA	J434 J435	Boost for tis buffer stock	3	J007			
Herculaneum to re-open?		J143 J149	Japan :	LA	0430	Tin stockpile sales continue Currency influences tin		J012 J024			
	IA IA	J163 J166 J167	Off			Thailand sets concentrates quota	IA	J028	VANADIUM		
Karachipampa fund shortage Agreement on lead-free	IA	J167	Breakthrough from below?	MA	J217	Dollar strength bits Penang Tin sale Tin steady	IA S	J039 J045 J058	Vanadium viciositudes	IA	J400
petrol Lead falls again	IA S IA	J168 J179 J186	PALLADIUM			SNP ends Teammein tin	IA	J061			
More confidence for lead	S	J219 J239	Palladium for GSA	IA	J452	Peninsular tim exports down Tim tax lifted	IA	J063	ZINC		
Lead consolidates	SIA	J254 J258	PHOSPHATE			Improved tim recovery at  Kammativi Record bigh for LME tim	MW S	J072 J074	Concentrate shortage could		
Lead and zinc falter	S	J273 J307	New mines for Morocco Jordan phosphate output	IA	J061 J062	BSM in control South Crofty refurbishment	SIA	J074 J077	emerge in late 1980s Jersey Miniere plans cutback at Clarksville	Page 1	
	IA	J309 J311	Major phosphate fertilizer project	P	M007	Tin operations for Metals Exploration	IA	J078	at Clarksville Zinc price cut Thai sinc refinery could be	B	J011 J024
Lead and zinc contrast	IA S IA	J323 J329	Phosphate drying plant	IA IA	J187 J224	Tin sales continue Thai tin miners urge ITA	H	J079 J086	Melayed Lead and zinc firmer	IA 8	J036 J039
Lead ahrinks Yugoslavia lead-zinc	SIA	J343 J345	Sulphur production trends Phosphate mine for Egypt U.S. phosphate production	IA	J243 J279	withdrawal Tin sceadies Thai tis troubles	SIA	J092 J114	Lead and zinc mine production falls	TA	
Amax idles plant Lead lurches	IA	J346 J375	Desert problems Phosphate pipeline for Chevron	IA	J310 J330	Fragile market stability Tin drifts	S	J125 J126	Morsing to increase production	IA	
Kamioka mine Kosaka mine and smelter Japanese smelters	A	M387 M403 M430	Phosphate upturn for Togo	IA	J380	GSA sells tin Squeeze on the co-operative	IA	J131 J162	Toqui ships first expentrate Lead and misc too	IA 8	J043
Now for the good news	MW S	J393 J395	PLATINUM			October start for K.L. tin	8	J163	Zinc consolidates Zinc producers fined	8	J074 J092
Lead under pressure Lead-free petrol controversy	S	J415 J419	Platinum contract approved	IA	J063	Vinto currency problems GSA tin Tin and nickel surge	IA	J167 J168 J179	Zinc slides St. Joe buys sinc plant	B IA	J110 J115
	MW S	J427 J431	Platinum and gold in the Shetland ophiolites	IA	J077 J186	Malaysian tin output KL tin mart details	IA	J186 J197	Lead/zinc statistics Zinc slides	EA 8	J130 J143
			Disruptions in South Africa Matte refinery for Westplats Feasibility study for		J196	Tin prices too high Thailand seizes amusgled tin	8	J219 J226	CINKUR's Waslz plant in Turkey	A	1098
LITHIUM			Stillwater platinum project	MW	J253	Recovering tim from residues in Zimbabwe	P	N166	Zinc price cut Reverse for zinc Japanese zinc cutbacks	8	J179 J197 J201
Chile's lithium venture	TA	J148	Noble investment Munni Munni platinum	IA	J310 J327	Tin tumbles on sterling rally	3 5	J239 J254	Asturienne minc cutback Zinc price cut	IA	
Chile lithium venture		J295 J329	Platinum/palladium out of step	N	J409	New surge for tim Tin concern over Brazil Tin concern over Thai miners	IA	J254 J260 J260	Zinc for U.S. Mint Upturn for sinc	IA 8	
Foote taps Chile's lithium		J372	POTASH			Malaysian viewpoint Emphasis on marketing and	MA	J269	Lead and sinc falter lead and sinc contrast	8	J307 J383
			Kalium Chemical plans			Brazil's tin production	3634	J289	Saudi analysts at work Zisc output grows Maintenance work at Greenex	B	J343
						continues to rise		J295		IA	J346
MAGNESIUM			expansion Canada: record potash sales	IA	J078 J079	Gibsonvale on stream	IA	J310	Zinc firmer	8	J358
MAGNESIUM Norsk Hydro plans magnesium export boost	1.7	J012	expansion		J078 J079 J130 J130 J149				Einc firmer AME wine cut Emmicks mine Brazilian wine increase		J358

### Countries

ANGOLA			thiourea Raise boring at Tasmanian	A	M237 M258	BELGIUM			Curtains for Falconbridge mine	IA	
Angola diamond mining Diamond smugglers on trial	L	H145 J237	Gem/WMC venture North Flinders examines	IA IA	J242 J242	MHO's investment programme Round one to Belgian miners	IA	J021 J330	Landrill expansion Quebec's acid rain plans Kidd Creek expansion	IA IA IA	J028 J042
ARGENTINA			Granites Great Victoria dedication Kurri Kurri postponed	IA	J243 J258	BOLIVIA			Smoky River shutdown Conciliator brings unions and Alcan management		
Tenders call for Argentinian	н	MO11	Kurri Kurri postponed Aberfoyle ponders os mill Pine Creek go-ahead	IA	J259 J259	Bolivian strike follows talks failure	TA	J027	together Pine Point contract ratifies	IA 1 IA	J043 J043
Argentina plans lignite mine	IA	J309	Pine Creek go-ahead Tunax to HMC Bluebird acquisition	IA IA	J259 J260 J260	Bolivian strike follows talks failure Enaf loan from West Germany Karachipampa delayed yet	IA	J044	Thor Lake discovery McBean pours gold	H	J057 W010
AUSTRALIA			Curragh coal sales Olympic Dam costs escalate Palmer River deposit	MW IA	J271 J276	agais Loan to Bolivian mines Squeeze on the co-operatives Karachipampa fund shortage Vinto currency problems Comibol bids delay	IA IA	J095 J130 J162	McBean pours gold Funds for Kaiser aluminium smelter Nickel institute formed	H	M010
More quartz reels for Golden			Palmer River deposit Olympic Dam investigations Red Hill interest revived	IA	J276 J276	Karachipampa fund shortage	IA	J167 J167	Ruttan copper continues Quebec grant for copper mine	H	MO10 MO11
Crown Hill End update	IA	J010	Portland smelter revived Goldrim to reopen tantalite	IA	J277	Comibol bids delay	IA	J168	Aid sought for lead smelter Tex U.S. discovers gold in	H	MO11
Australian coal study Mt. Pleasant gold update	IA	J011 J026	Australia's uranium mountair	AI o	J279 J279	Mutum gets OK Comibol emergency funding	TA	J244	Ontario Buchane avhausted	H	MO11 MO11
Forsayth production plans Australian coal exports	IA	J026 J028	Besison an active explorer Chinese pot of gold Australia reciprocates	IA	.1294	Bolivia to exploit salts Comibol to reopen Tasna Strikes in Bolivia	IA	J362 J381	The Bullmoose project Subsidence of Nanisivik mines concentrator	A	M012
Australia opts for uranium Kanowsa Deep Leads	N IA	J033 J042	Australia reciprocates	IA	J294 J294 J294	Geothermal project for	IA		mines concentrator	A	M018
Fimieton mine expansion	IA	J042 J043	Mungana hopeful Australiam coal success Larox filters	IA	J296 J296	lithium and potassium	IA	J435	building Some optimism in B.C. Katza River drilling	NIA	J069 J077
MIM retrenchments Placer to sell off Kidston stake	IA	J044	More diamonds near Argyle Lawlers tailings start up	H	M295 M295	BOTSWANA			New structure for Laurasia Kalium Chemicals plans	IA	J077
Pilbara involvement for Italsider?	IA	J061	W.A. coal find More reserves at Hellyer	H	M295 M295	Botswana soda ash plant	Н	M009	expansion Creighton partial auspension	IA I IA	J078 J078
Drills for Argyle First Worsley alumina	IA	J063 W009	Mining machinery research Move to curb labour disputes	H	M295	Innovations at BCL smelter in Botswana	MW	J123	Canada: record potash sales Cordova Mines option Massive agreement with	IA	J079 J094
Drills for Argyle First Worsley alumina More gold near Griffin's Find Gold at Meekatharra	н	16009		36.86	J305 J309	Botswana's rail & coal	N	J137	Massive agreement with	IA	J094
Gold at Meekatharra Loan for Argyle mine	H	M009	Lights of Israel Gabanintha results	IA	J309 J309				Canadian Barranca on schedule	IA	J095
Loan for Argyle mine Tasmanian prospects released Endeavour at Warrawoona	H	M009	encouraging Last Chance evaluation Woodcutters finance	IA	1309	BRAZIL			Canadian plants for Elkem Uranium: Canada in pole	IA	1096
Portland smelter project to resume	MA	J073	agreement Broad Arrow plant progress	IA	J309	Shell shows Alumar concern Gold sector set to expand in	IA	J026	position Quesnel Lake fluorspar?	MW	J108
Galtee More encouraging grades	TA	J077	Broad Arrow plant progress Golden Crown update Gibsonvale on stream	IA	J309 J309		70.00	J057	Wann claims progress	IA IA	J113 J113
Hellyer prospect reserves Golden Crown more reefs	IA	J077 J077	Sons of Gwalin	IA	J310 J310	Brazil: copper plans Brazilian niobium find	IA H	J061 M011	Mann claims progress Quebec gold Pinto Malartic Gold	IA	J113 J113
	IA	J077 J089	Australian use for scanning	IA	J311	Alumar smelter expansion Carajas manganese ahead of	MM	J089	Obed Marsh shipment Lake George resumption	IA	J114 J114
Rich Reward in Australia Paringa upgrades reserves	IA	J094	Meekatharra's confidence in Wintinna	M	J319	schedule Sao Bento go-ahead	IA IA	J114 J129	Lupin raises gold output Ontario labour problems Blackridge gold prospect	IA	J114 J115
Kalgoorlie meeting Bamboo Creek update Boddington gold prospect	IA	J095 J095	Munni Munni platinum Caris investigates Windanya	IA	J327 J327	Alumar now open Outokumpu awarded contract	IA	J130 J168	Blackridge gold prospect Squall Lake news	IA	J129 J129
Boddington gold prospect Horseshoe Lights mining to resume	IA	J095	Edjudina revived Mt. Newman ore for Sabab Drilling at Gympie reveals	IA	J327 J329	Mineral revenues increase New ferrosilicon plant for	MM	J196	Squall Lake news Rea Gold operations Progress at Gasquet Mountain	IA	J129 J129
ASEA locomotives for	IA		Drilling at Gympie reveals	IA	J345	Brazil	IA	J223 J223	Progress at Gasquet Mountain Potash plant to reopen Chimo gold mine dedication	IA	J130 J130
Queensland Chinese/Australian jv in the	IA		complexity Lyndhurst y	IA	J345 J345	Brazilian gott mines update Brazil's miobium industry ATPC to woo Brazil Carajas manganese start up Boost for Alumar	IA	J225 J226	Chimo gold mine dedication Banbury gold	IA	J130 J131
Pilbara proposed Bellevue deep lode Seltrust discovery Meekatharra finds contractor	IA	J109 J113	Mulwarrie gold update Australia/Indonesia coal	IA	J347	Carajas manganese start up	H	M175 M175	Quebec pay talks Minerex claim Chibougamau project for	IA	J148
Seltrust discovery Meekatharra finds contractor	IA	J113 J113	Lower prices for Australian		J355	East Dagga in Brazil Brazil's iron industry Brazil's refined copper	IA	J242 J259	Campball	Al	J148
	IA	J115	coal/iron ore Hilton find for MIM	IA	1361	Brazil's refined copper	IA	J259	Midway promising Corona-Teck Hemlo news	H	M089 M089 M089
Bechtel Cutbacks at Kembla CSR option agreement	MW	J124 J129	Allied also studying plans	IA	J361 J361	Tin concer over Brazil Brazil's tin production	IA	J260	Swayze reserves increase Finance sought for Hunter	H	M089
CSR option agreement Kidston gold soon Kia Ora evaluates progress	IA IA	J129 J129	coal/iron ore Bilton find for MIM New pleat for West Sands Allied also studying plans Meekatharra's alternative Solar plant for drying brown	MW	J373	continues to rise Gencor develops Brazil gold	IA H	J295 M293	Cunningham Creek exploration Dredging for gold in the		M089
Diamond decline Leigh Creek hopes	IA	J130 J130	Argonaut - financial	-	J376	Hydraulic excavators aid alluvial gold recovery			Yukon Teck-Corona's Hemlo project	A	M092
Australian coal for Korea Australian record	IA	J131 J131	arrangements Esso prospecting	IA	J379 J379	in Brazil CVRD's Araco in stream Alluvial bids for Brazil	IA	J308 J310	on schedule Gordon Lake ore zone extended	Ж	J160
Wictoria's brown coal plans Miners welcome budget Broken Will unexplored reef	MA	J140 J140	Esso prospecting Aborigine prospectors Buthenium catalyst for BP? Australian soda ash study	IA	J379 J380	Alluvial bids for Brazil BRN invests in the future Brazil increases bauxite	IA	J310 J329	extended Eden Roc buys claims Skyline results encouraging	IA	J166 J166
Broken Hill unexplored reef	IA	J148		IA	J380	PROSES IF DIRES	IA	J345	Skyline results encouraging Canadian ridge orebody	IA	J166 J166
Southern Ventures to dewater old gold mines	IA	J148	Greenbushes Bow River results	IA	J380 J381	Timbopeba jv? Brazilian infiltration of	IA	J347	Canadian ridge orebody Winston Lake progress Key Lake profile	IA	J167 J176
Mungana/Amoco studies West Coast leach project Government float	AI	J148 J149 J149	Kembla and its workers Great Victoria opening	IA	J381 M383	East Europe Brazilian iron ore exports	IA	J347 J380	Westfield share issue aids exploration	IA	J185
Government float Curragh coal start Machine mining of bauxite	IA	J149 J149	Pine Creek	H	M383 M383	Brazilian gold Brazilian niobium Brazilian output continues	H	M381 M383		IA	J185 J185
cap rock in Australia	P	M082	WMC: gem jv Mt. Leyshon jv Grante Patch teilings	IA	J400 J400	Brazilian output continues to rise	NA.	1393	Muscocho expansion Seabright mobile flotation	IA	J186
	H	M090 M091	Grants Patch tailings Whim Creek results	IA	J400 J401	Tungsten find in Brazil Brazilian zinc increase	IA	J399 J400	plant Ketza River interim results	IA	J200 J201
Loan for tim/tantalite mine Paddington funding Visible gold at Mt. Monger Indian Ocean/Weejaurdi	H	M091 M091	Kembla strike settled Gold: Western Australia's	HW	J411	Brazilian bauxite find	H	M563	Highmont suspension Fire Lake closure Rio mine operating	IA	J201 J201
Indian Ocean/Weejaurdi	IA	J166	latest addition Australia's largest discovery?	MA	J411	BULGARIA			Breakthrough from below? Soisson gold	MW	J217 J223
agreement Lady Loretta at a loose end Aluminium smelter for W.A.?	IA	J166 J167	Kalgoorlie buy-in for Windsor	IA	J418				Gilmor mine changes hands Lake George antimony reactivation	IA	J223
Lawlers tailings project underway	IA	J167	Poverty to reopen Galtee More assessment Cockatoo Island quiet	IA	TAIR		D	M068	reactivation	IA	J223 J224
Griffin's output and sales up	IA	J167	Cockatoo Island quiet	IA IA	J418 J418 J418	BURKINA FASO			Kiena looks to future Canadian coal McIntyre Mines seeks contracts	IA	J224
	IA	J168	EZ ups reserves at Elura NSW coal disruption	IA	J419	(FORMERLY UPPER		J290	contracts	IA IA	J225 J225
aluminium Strategic minerals for West	MM	J177	Australian diamond discovery? Difficult year for	IA	J433	Burkina Faso dedication	IA	J434	contracts Amok onto second phase Beryllium deposit at Thor Lake, Canada Yukon gold drilling Durham antimony Canadian hervillium	p	M166
Coast	IA	J185	Australian coal	-		BURMA			Yukon gold drilling	H	M175
Hellyer update Gold pods for Coronet Hill River coml	IA	J185 J185 J185	producers BHP farms into Donnybrook	IA	J445 J450					H	M175 M175
Work starts at Bamboo Creek	IA	J185	Lady Sountiful jv Meekatharra buys up Wintinna	IA	J450	Monywa concentrates: Mitsui joins tender	IA	J044	More drilling at Long Lac Alberta oil sands funds?	H	M175 M175
Portland smelter Australian coal for China N.S.W. coal backlog	IA	J186 J186	interest Expansion at Kia Ora Work resumes on Australian aluminium smelter	IA	J451 J451				Timmins plants to expand Cameron Lake prospects The RPC Sulphation Roast	H	M175 M175
N.S.W. coal backlog Brunswick Oil update	IA	J187 J200	Work resumes on Australian aluminium smelter	P	M557	CANADA			Process	A	M225
Two Dees jv Brockman beryllium revision	IA	J200 J200	W A payironment policy	H	M564 M564	Westmin presses on with H-W Toodoggone diamond drilling	IA	J005 J010	New bioleach technique for	MRC	J235
Brunswick Oil update Two Dees jv Brockman beryllium revision White Feather venture Mt. Pleasant feasibility Southern Goldfields on	IA	J223 J223	Broad Arrow goes ahead Woodcutters financing	H	M564 M564	Toologgone diamond drilling Roxwell option for Cominco Midway encouragement	AI	J010 J010	refractory ores Imperial Metals at work Coronation update	IA IA	J242 J242
	IA	J223				Wabigoon seeks Hunter	IA	J010	Becancour on schedule East Kemptville update	IA	J242 J242
Central Kaigoorlie start-up CIP plants in Australia Bellvue upgraded	IA P	J224 M167				financing Falconbridge strike settled Bullmose: one million	IA	J011	Chicoutimi smelter for Alcan Newfoundland fluorspar	IA	J243 J243
Bellvue upgraded NSW tin operation	H	M177 M177				Bullmoose: one million tonnes Screens for Quintette	IA	J012 J012	Cyprus Anvil uncortain		
Portland aluminium resumed	H	M177	BAHRAIN			Cunningham Creek programme Shell Canada oil project	IA	J026 J026	future 75 years for South Porcupine Japanese steel mills in	IA	J243 J243
China/Australia study iron ore	Н	M177	Bahrain starts pellet plant	IA	J259	Canadian coal production rises	IA	J027	price talks with Bullmoose	**	J244
Recovering gold with			Alba expansion Aisco pellet plant on stream	IA	J434	Pamour Porcupine suspension	IA	J027	Technology transfer at	LA	3244

Inco's Thompson mine Mount Skukum opportunity for		J291	CHINA			FINLAND			HAITI		
Erickson Noranda awards contract	IA		Technology agreement for Atlas Copco	1.0	J012	New nickel mine to be opened in Finland	P	M005	Maitian gold find Maitian gold find	IA	J242 M383
OMA campaigns for fairer deal Lac Shortt dedication	MW EA		Chinese phosphate and pyrit China-Japan uranium exploration	e H	MO11	Mica plant at Sillinjarvi Outokumpu small mines Mining equipment from	H	M177 J277	HUNGARY		
Cigar Lake update Dumagami expectations	IA		Coal gas contract for			Finland at New Delhi	SH	J324	homenry: gmllium output	IA	J027
Boliden buys Canadian mines Aiguebelle new mill	IA	J296	Bechtel Coal slurry for China	XA		exhibition Finnish gold find	IA	3324	Hungarian bauxite	14	J131
Bullmoose sales	IA	J296	Chinese/Australian jv is th Pilbara proposed	W	J109	Outokumpu develops two small Finnish mines	11	M564	Numgarian bauxite Control of water in	E	M081
Key Lake exemption Teck-Corona's Hemlo project	IA		Jining contract to Fluor Chinese coal output	IA	J113				Mungarian bauxite mines	s P	M167
on schedule Mining research centre for	P	M296	China cuts coal price Credit for Chinese coal	IA	J131	FRANCE			INDIA		
Canada Major Canadian offshore find	P	M287 M292	project Chinese potash industry	IA		Uranium output rises	166	J020			
Montauban gold drilling Cinola gold news	H	M292 M292	China: top coal producer	36	M091	Pechiney to cut back in Europe	IA	J042	Protocol for India and U.S.S.R.	IA	
Iskut River results	H	M293 J309	More iron ore for China? Australian coal for China	IA	J177 J186	Process for uranium and gold ores	н	M010	Earnataka uranium U.N. boost for India	IA	
Casa Berardi project Apex Mountain survey	IA		Iron ore talks Salt deposit for China	IA	J186	French tungsten French uranium	IA	J200 J200	India: aluminium surplus likely	IA	J027
Warket conditions force Brenda's hand	EA	J311	Chinese coal plant complete	IA	J258	Asturienne zisc cutback	IA	J224 J249	Copper imports continue India considers barter with	IA	J027
Developments in the leaching industry	IA	J311	Chinese metal import figure: Chinese antimony boost	MW	J272	Pit potpourri Gold loses its glister	MIN	J321	U.S.S.R. Paddle feeders for coal	IA	J063
Weak market affects Mt.		J311	Coal plant inaugurated Jising sampling	M IA		Carnaux alternative Uranium permit	H	J347 M381	handling plant	IA	
Teck agrees new Bullmoose contract terms	DATE:	J320	Pingshuo hitch smoother out Australia reciprocates	IA IA	J277 J294	iron ore strikes in Lorraine Neuf-Brisach plant upgrade	IA	J401 J418	Unit Rig trucks for India Mercury tender	IA	J063
Drilling planned for Madre	IA	J327	China's metal imports surge Nickel smelter for China	IA	J310 J330	Amelie modermization French coal	IA	J435 M563	Indian aluminium stockpile Tungsten projects underway	ME	M011 J089
Montauban expansion High grade at Midway Growth for Canada's uranius	IA	J329	Sanshandao progressing Chinese coal mine floods	ÎA	J345	Frenca comi	н	H003	Indian bauxite Indian iron ore talks	IA	J114
Progress at Golden Giant	IA	J330 J340	Bare earths booming	EA	J347	GERMANY (EAST)			Indian chrome ore for Japan Goz iron ore exports	1A 18	J131
Results boost Westfield confidence	IΑ	J345	Canadian/Sino agreement Pingshuo contract	IA	J363 J363	Products from brown coal -			Alumina enquiries to India	IA	
Price setback at Polaris Canada - search for potash	IA	J346	Chinese gold find Jungar jv for Japan	H	M363 J399	G.D.R. outlines plans G.D.R. lignite mine	P	M377 M564	New loan for Nalco alumina project	MW	J195
investor Muscocho renewed activity	IA	J347 J361	Huangpu coal terminal Problems for Pingsbuo coal	IA	J419 J428		-		Pellet exports for Kudremukh?	MEN	
Sherritt progress at Agassiz Sherritt - last ditch		J361 J362	Pechiney/Wimpey study in China	IA	J433	GERMANY (WEST)			New Indian bauxite mine Indian iron ore for Romania	H	M174 M174
Mill for Hemlo	IA	J363	Shanxi Province coal	IA	J434	VAW cutback	IA	J027	Khetri copper complex Coal seams find in India	A	M183
Canadian/Sino agreement Too little, too late?	IA	J363 J363	Flooding in mises contained Chinese gold mise	H	J434 M565	Enaf loan from West Germany Lignite remains crucial for	IA	3044	Indian coal figures up Curragh coal sales	IA	J243
Joubi agreement for Western Quebec	IA	J379	Mineral processing and extractive metallurgy			F.R.G. F.R.G. research centre for	MM	J088	Gas turbines for Khetri	IA	J260
Griffith shutdown Saskatchewan coal mine sale	IA	J380 J381	conference, China	A	M594	ores and coal	н	M608	Asbestos trade Airborne survey for India	IA	J279
Falconheiden in earan market		J381	COLOMBIA			GHANA			Lignite expansion for India Beneficiation of Lapso Buru	IA	J296
Cigar Lake: a major new Saskatchewan U deposit	P	W373							kyanite Indian tungsten find	P H	M268 M297
East Kemptville: good progress	11	M380	El Cerrejon ahead of schedule	IA	J094	Accord reached on Valco power charge	MW	J037	India to produce ferromanganese		J309
Amok uranium opening Dome expansion	H	M380 M380	Funding problems for El Cerrejon	MX	J123	Bauxite talks for Ghana Gold output to rise	IA	J149 J149	Mining equipment from	LA	2309
Highwood resumes drilling Newfoundland stakes for	EA	J399	Jamaicas/Colombian joint nmelter	IA		Ghana to produce more	IA	J186	Finland at New Delhi exhibition	M	J324
Westfield Echo Bay investigates Kim	IA	J399	Cerro Matoso at a loss Woly deposit for Colombia	IA	J362	Ashanti expansion Lonrho invests in Ghana	H	M174 J244	Kudremukh - sales increase Metal mining in India	IA N	J337
claims Ketza River: 1984 results	IA	J417 J417		1.8	2319	Soviet aid for Ghanaian	H	M292	Molar contraction continues 12th World Mining Congress	MA	J342 J357
Nickel Plate drilling	IA		COSTA RICA			Chasa - time for action	N	J369	Indian mining companies 12th World Mining Congress	A	M497 M501
underway Braiorne time for pause	IA	J417 J417	Montezuma gold	IA	J148	Ashanti Goldfields poised	H	M381	BCCL expansion plans	IA	
Cusac claims for Erickson Nova Scotia jv	IA	J417 J417	Rio Chiquito prospect for Mallon	IA		for expansion	Mile	J392	INDONESIA		
Tillicum Mountain encouraging	IA	J417	Costa Rica gold venture Rea in Costa Rica	H	M295 J345	GREECE					
Selbaic stage 2 Sherritt to ride	IA	J418 J418	CURA						Tin tax lifted BMP divestment	IA	3131
Balmer coal agreement secured	IA	J419	CUBA			Hydrogeological studies for Greece	IA	J042	Indonesian coal Indonesian/Japanese trade	H	M174 J286
Gold, the driving force	309	J430 J433	Cuban mickel proposals Punta Gorda on stream	IA	J330 J434	Skalistiris: nationalized and lossmaking	IA	J044	Indonesian opportunities Rehabilitation of old gold	N	J301
Good results at Winston Lake Deep sea ore discovery	IA	J433	More Cuban nickel	н	M563	Greek power dispute decision Greek coal power	H	J045 M010	mines Asahan smelter at full pace	MN	J320 J347
Coniagas programme at Missinabie	IA	J433	CZECHOSLOVAKIA			Greek exploration	IA	J095 M091	Australia/Indonesia coal deal	IA	J347
Placer option agreement Lake Fortune finance planned	IA	J433 J434			J027	Greek lignite: mine reopened	H	M091 M091	Mining in Indonesia Freeport Indonesia goes	A	M479
Gaspe re-hires Ash problems for Quintette	IA	J434 J434	Lake drained for coal mining Czech lake moved for coal	38	1091	More Greek lignite Offers for Greek alumina	IA	J166 M177	underground	A	M481
Noranda/Sanfred jv Squall Lake reserves	AI	J450 J450	Czech breakthrough Coal search for Czechs	A E	J381 J399	Greek uranium plant	H	M297	Lebong Tandai rehabilitated	H	M565
Golden Rose revival	IA	J451 J451				Mannesmann in Greece Greece plans near future	IA	J363 J379	IRAN		
	11	M565	DENMARK			Czech breakthrough	IA	J381	Sar Cheshmeh work completed	TA	J062*
More exploration at Cass Berardi	н	M365	Danish coal policy	IA	J451	GREENLAND			Iranian coke Iranian tender for moly	IA IA	3129
			DOMINICAN REPUBLI	C				*****	THE THE COURT TO MAKE		0200
CHILE			Sulphide studies at Pueblo			Greenland tungsten find	IA	J129 J417	ITALY		
Storms hit Chilean mines	14	J028	Viejo No more Dominican bauxite	WW	J021	Tungsten mineralization in Greenland	P	M557	Sardinian bauxite plans	IA	J028
Enami sets new prices for ore	IA	J028	Japanese copper search in	H	M011				Copper refinery reaches full capacity	IA	J027
Storms close small mines	14.6	J036	Dominican Republic Pueblo Viejo increased		J166	GUATEMALA		*	Efim Al cutback	IA	J452
	IA	J043	reserves	14	J258		IA H	J167 M295	IVORY COAST		
Disputada production resumes	IA	J062	ECUADOR			Guatemala: renewed		J381	Ivory Coast promising	IA	J200
Copper talks for Chile and	IA	J063	Ecuador gold	TA	J061	production	14	9361	New mill for Union Carbide	IA H	J380 M380
St. Joe resumes production at	IA	J077	Foreign investment in mining	SEX	J175	GUINEA			Ivory Coast gold	12	M300
Chile's lithium venture Chilean mine explosion	IA IA	J148 J167	sought Ecuador: gold fever	H	M175		**	J150	JAMAICA		
El Toqui	IA	J186	Ecuador - not only oil but	H	M563	Recovering diamonds at			Jamaica: mining prospects on		
Chilean disruptions Low copper prices contribute	IA	J186	also mining	A	M588		PH	M286 M292	the rebound Jamaican bauxite	MW	J004 J078
to peso devaluation	MW IA	J216 J259	EGYPT			E.E.C. loan to Guinea	IA	J401	Alpart to reopen Jamaican/Colombian joint	IA	J115
	H	M293		IA	J187				smelter	XA	J225
rolling	A.I	J329	Phosphate drying plant Phosphate mine for Egypt	XA.	J243	GUYANA			Bauxite: Jamaica counts the cost	MW	J304
Policy criticized	MA. MA	J341 J342	Desert problems West Sebaeya bids	H	J310 M381	Guyana bauxite output	IA	J062	LABAN		
	MW	J372	Egyptian gold prospects Egyptian phosphate rail	80	M563 M563	E.E.C. loan for Guyana	IA	J094 J096	JAPAN		
Codelco plans ahead Gypsum find for Chile	HW	J393				Noranda-Guyana contract Loan for Guyana bauxite	H	M175 W175	Antimony smelters seek tariff abolition	EA	3012
Codelco awards coal contract Heap leach cyanidation of	MA	J413	EIRE			Guyana gold exploration	H	M295 J305	tariff abolition Japan: coal liquefaction China-Japan uranium		J061
gold-silver ores	D	M615	Bula has another go	IA	J258	Guyana - gold dredging plans		J329	exploration	H	M011
											ge.

	Kaiser coal for Japan Increase in Japanese iron	IA	J078	Mine plans in New Zealand New Zealand becoming	M	J109	POLAND			Rietspruit strike settled More UG2 from W. Plate	IA IA	J419 J433
	imports Greece seeks Japanese aid	IA		BUCL in New Youland	IA		Poland first half copper			Marriage in the Free State Drilling begins in W.	MW	J433 J446
	Japanese coal talks	IA	J150		**	0401	exceeds target Polish copper for Japan	IA	J202	Transvaal City Deep plant	IA IA	J450 J451
	Sumitomo raises mickel production		W091	NIGER			U.K. coal imports from Poland	IA	J225	City been plant	***	0401
	Japanese coal imports Japanese sinc cutbacks	IA	3187	Higer: uranium markets Higer: explores new markets	H	M010 J089	Weighing equipment for Polish mines	16	W259	SOUTH YEMEN		
	Polish copper for Japan Copper smelters resist high	IA		anger. Capacites new markets	-	3005	Polish sulphur project	IA	J329	Crusher for South Yemen	IA	J311
	concentrate prices	NW IA	J235 J258	NIGERIA			PORTUGAL			SPAIN		
	Makatatsu ore promising Chinese antimony boost Indonesian/Japanese trade	NW IA	J272	Nigerian gold Nigerian gold find	IA		Discovery of the Neves-Corvo	,		Spanish wolfram mine	н	M010
	Lower prices for Australian		J355	widelies ford ling	***	9340	copper-sisc-lead deposit, Portugal	D	W151	Spain funds deep pits Spreaders for Spain	H	M177 J296
	Coal/iros ore Demand prospects uncertain	NW LA	J356	NORWAY			BTZ interested in Meves	IA	J259	opreaders for opain	14	3296
	Problems at Hisbikari Dowa hits Euroko ore	IA	J379	Morsinc to increase		70.40	Portuguese stake for RTZ RTZ-Portuguese copper talks	H	J296 M381	SRI LANKA		
	Japanene lead & zinc finds Mining and smelting in Japan	Ā	M383 M385	production Norsk Hydro in takeover		J042		-		Sri Lankan copper find	B	MO11
	Kamioku mine Kosaka mine and smelter	A	M367 M403	talks with ASV Outokumpu buys Norwegian	IA	J044 J202	ROMANIA			Sri Lankan graphite seeks loan	H	M174
	Hanzoka mine Hishikari gold mine project	A	M414 M427	New crusher for Norsk	EA		Iron ore for Romania? Turkey places order with	IA	J063	Sri Lankan gem proposal Sri Lanka: mechanized gem	IA	J345
	Japanese equipment manufacturers	A	M490	Environmental controls at Twerrfjellet, Morway	P	M289	Romania Romania/Malaysia	IA	J063	industry	H	M565
	Jungar jv for Japan Metals policy for Japan	IA	J399 J419	Norwegian copper mine sold ASV announces cutbacks	H	M297 J329	countertrade deal Romania: copper	IA H	J226 M361	SUDAN		
	Gallium consumption Further closures urged for Japan's Al industry	IA		Norway - Al cutbacks continue	IA	J346		-		Greenwich updates Sudan gold	IA	
	Nippos to accede to MITI	IA		Norsk expansion plans Outokumpu to reopen	IA	J362	SAUDI ARABIA			Sudan gold news Greenwich in Sudan	IA	M090 J379
	plan Japan negotiates copper	IA		Bidjovagge mine	IA	J400	Gold bids for Petromis Busting is aerial	IA	J114	SURINAM		
	imports La Caridad sells concentrates	IA 6		OMAN			reconnaissance Petromin's progress at Mahd-	IA	J167			
	to Japan Japanese gold find	H	M565	Omeni copper exports	IA		al-Dhahab Saudi analysts at work		J259 J327	Billiton stoppage Billiton back at work	IA	J244 J279
	Japan gold delay	H	MB65	Omani copper situation	IA	J348	Equipment for Mahd Adh		J347	SWEDEN		
	JORDAN			PACIFIC ISLANDS				14	9341			
	Jordan phosphate output	IA	J062	Ok Tedi encouragement	IA	J011	SIERRA LEONE			LKAB's game plan Enasen on stream	IA	J072 J201
				Ok Tedi: more problems Ok Tedi start up	IA	J027 M005	Sierra Leone mineral output Sierra Leone acquires BP	IA	J011	Enasen - a new open pit gold mine in Sweden	A	M298
	KOREA (SOUTH)			Bougainville awards contract Ok Tedi further trouble	IA IA	J079 J115	diamonds	H	M563	CMITTED! AND		
	Worsley contract for Korea S. Korea/Australia aluminium		J096	Ok Tedi respons Ok Tedi responds to gold	IA	J131	SOMALIA			SWITZERLAND		
	jv?	H	W174	price factor Crocodiles close Ok Tedi	NW II	J139 M090	Somelia uranium contract	н	W381	Agreement on lead-free petrol	IA	J168
	LIBERIA			Aredor - dangling the carat	MW	J160 J200	CONTRACT CONTRACT	a	M301	TAIWAN		
	Sethlehem sells Lamco			Forgera tests high grade Kobe mill for Panguna WMC exercises option	IA	J202 J225	SOUTH AFRICA					
	interest	n	M03-0	More power for Ok Tedi Revegetation at Bougainville	IA	J296	South African-made continuous			Taiwan: mine accident Taiwan coal industry		J028
	MALAYSIA			Copper	A	M307 J361	miners for abrasive coal	M	J008	threatened Taiwas coal uncertainty	AZ	J062 J187
	Peninsular tin exports down	IA	J062	Porgera firms up Further Ok Tedi delays	WW	J373 N383		IA	J011 J012	Taiwan cancels aluminium wenture	IA	J311
	More research into tin usage?	H	M091	Porgera gold WMC Fiji stake	H	M383	Palabora to commission Baddeleyite plants	IA	J027	TANTANIA		
	Malaysian tin output Romania/Malaysia	IA	J186	Improved results at Vatukoula	IA IA	J400 J418	Krugerrand sales up Anglovaal-Utah in S. African	X.A.	J028	TANZANIA		
	countertrade deal	AI	J226 J269	Ok Tedi talks PWG gold find	H	M564		IA	J056 J062	Tanzanian coal? Tanzania iron ore	H	J166 W174
	Mt. Hewman ore from Sabab	IA	J329				New S. African platinum project	H	M009	Tanzania to step up coal production	IA	J258
	MALI			PAKISTAN			Waverley plant expenditure S.A. gold	IA	J077 J078	W.B. loam for Tanzania coal Tanzanian prospecting jv	H	M292 J327
	Meli gold	H	M174 J434	Pakistan sulphur plant	IA IA	J095 J202	Iscor places order with AEG Coal to Lethabo	IA	J078 J114	BMCL in Tanzania Tanzanian prospecting	IA	J399
	Mali/Soviet agreement	IA	3434	Pakistan chromite ore	1.8	3202	South African labour troubles	IA	J115	underway	IA	J450
	MAURITANIA			PERU				1686	J124	THAILAND		
	Inauguration of Mauritania's		****	Centromin strike	IA	J027	Erugerrand sales Giant unloader for Natal	IA	J131 J131	That zinc refinery could be		
	Guelbs iron ore project Inauguration of the Guelbs	48	3033	Minero Peru force majeure	IA IA	J044 J062	Offshore diamond mining? S.A. gold	IA	J149 J149	delayed Thailand sets concentrates	IA	J026
	iron ore project, Mauritania	P	M061	Peru: more copper Rosa Maria - a small copper- gold mine in Peru	P	M007	Consolidated Murchison expansion	н	M090	quota	IA	J028 J061
	The Guelbs iron ore project, Mauritania	A	M566	Peruvias copper start-up Centromin returns to normal	IA IA	J114 J130	New South African hydraulic	MW	J176		IA	J061
	MEXICO			Alluvial gold in Peru Expansion programme for Peru	IA	J167 J295	rockdrill boosts output	M IA	J180 J186	withdrawal	N IA	J086 J114
				More Peruvian lead-zinc SPCC defers capital projects	IA	J329 J340	A striking compromise Matte refinery for Westplats	M	J193 J196	Thai troubles at smelter	IA	J114
		EA	J115	SPCC defers capital projects Strikes in Peru Silver in Peru	IA D	J340 J381 M542	New mine for Johnnies? Western Deep Levels contract	IA	J201 J202			J115
	Major boost for the mining sector	MW IA	J139 J187	Peruvian tungsten aid	H	M563	High attendance at Electra mining exhibition	MW	J216		MM	J141
1	Bids for La Caridad moly	IA	J295 M295	1			Messina in sales talks		J224 J225	proposals		J149 J187
		IA		PHILIPPINES			6th International Electra mining exhibition	A	M245	Thailand seizes smuggled tin	IA	J226 M174
		IA	J452	*	T.4	J043	Sishen rail links under	MM	J237		IA	J258 J260
ı	MOROCCO			Pasar force majeure lifted Gold price affects		J063		IA	J243 J244	Thailand signs second potash		1277
			J061	Philippine production	IA	J078	Rising mineral exports Coal development for KwaZulu	IA	J271 J277	Billiton closes Thai		J279
1		H	M381	Crisis in the Philippines Copper concession	IA	J085 J115	Government under fire S.A. gold facts	IA	J320 J330	Thai approval for gold mines		M297
1	MOZAMBIQUE			Marinduque suction Benguet clearance to Japan Typhoon Ike flooding	IA IA	J150 J150 J167	Sallies gives thumbs down to		J330	Fresh move on soda-ash project Billiton staying in	MM	J306
		Mar	J057	Marinduque sale		J168	Van Dyk Controlling rockbursts by	MM	J341	Thailand?		J346
		and of	3007	Sumitomo to restart Cobalt line	TA	J201	backfill in deep level		J355		IA	J400 J401
1	NAMIBIA			Loan sought for Philippine coal	Н	M174	Rockburst at Kloof Rand Wines	IA IA	J363 J379	Problems in Thailand Potash venture aborted	IA	J412 J417
1	Diamond board abolition	MW	1050	Benguet copper exports suspended	IA	J259	Rh, Ru price boost Coal production nears at New		J380	-		
200	. Atlantic offshore		J056 M292	Ni-Cal's acid leach process for Surigao nickel?	MW	J289	Progress at Finsch diamond		М373	TOGO		
		H	MADE	Bonguet copper for Japan cleared	Н	M297	mine, S. Africa	P H	M375 M381			M175 J380
1	NEW ZEALAND			Surigao back on stream The Philippines - a company		J380	U30g plant	ľA	J400			
3	ianciri dredge offered for	14	J028	Amacan copper mine, the		M460	Vaal Reefs new shaft opened	MW	J401 J412	TURKEY		
		- 26	-020	Philippines	A	M471	S.A. gold	IA	J418	Coal shortfall for Turkey	IA	J062
- 1				1								

urkey places order with Romania	IA	J063	U.S.A.			McLaughlin on schedule Open cut tests at Homestake	IA IA	J258 J258 J260	Venalum considering empanation Venezuela to develop Los	IA	J14
INKUR's Wastz plant in Turkey	A	M096	AtUA chairman calls for overseas debt relief	No.	J005	PMC Corp. contract Changing strategies	H	J265	Pijiguaos bauxite?	IA	J16
tibank alumina jv?	H	M381	Pegasus acquires gold claims Cripple Creek: exploration	IA	3010	Silver Dyke preliminary tests	IA	J276	Bauxite: action up the Orinoco	MW	J42
			Suspension Secia to explore property	IA	J010 J010	Old development aids Cous Creek	IA	J276			
			Jersey Miniere plans cutback	-		Grant mine phase II	IA	J276			
J.K.			at Clarksville Coin plan falters	IA	J011 J012	Lacama/Westley prospect Conscience delays Sonora	IA	J277 J277			
. R.			Rhone Poulenc in Hampton			Kennecott updates smelter	IA	J279			
eel workers reject strike		J011	Reid mine update	IA	J012 J026	U.S. phosphate production McCabe proposal	IA	J279 J295	VIETNAM		
call K. industry stagnates	MM	J011 J035	U.S. gold statistics	IA	J028	Energy cost savings with					
K. coal talks	EA	J043	USBM contract for Pincock, Allen & Holt	IA	J028	cold-water mixtures Gold, silver find in Arizons	P	M291 M292	Pertilizers for Vietnam	IA	J20
bcock goes into surface mining	EA	J044	Cutback for Consolidated			California, Washington and					
dling Colliery contract	IA	J044	Aluminium Germanium for stockpile	IA	J042 J045	Nevada gold Bethlehem bold on coal	H	M293 J304			
E. energy secretary says stocks sufficient	IA	J062	Tin sale	IA	J045	U.S. disposals face further	-				
eel loader distributios	IA	J063	California gold programme Reynolds cuts back	IA	J061 J061	delays Foley Ridge proposal	NW Al	J306 J309	YEMEN		
K. fluidized bed coal combustion project	P	M006	Platinum contract approved	IA	J063	First gold mine for Geodome	IA	J311	TEMEN		
gnite mining in N. Ireland	H	M010	Columbium for stockpile Copper talks for Chile and	IA	J063	Bullion mine revival? Hayden facelift	IA	J327 J346	Gold prospecting in Yemen		
ergy oversupply in 1983 atinum and gold in the	NA	J073	U.S.	IA	J063	Hibernation for Butler	IA	J347	(Aden) Geophysical survey for Yemen		J16
Shetland ophiolites	IA	3077	Major phosphate fertilizer	P	M007	Cyprus Bagdad reopens Twin Buttes curtailment	IA	J347 J347	deophysical survey for temps	1 A	221
evor applies for planning permission	TA	J077	Portitude ahead of schedule	H	MO11	Minton deal for Esso/					
uth Crofty refurbishment	IA	J077	Montana mise proposal	H	10011	Porcupine Progress at Casson gold	IA	J361 J361			
rike affects coal faces tchell Cotts new	IA	J078	U.S. wilderness policy criticized	П	10011	Thunder Mountain forging					
acquisitions	IA	J079	Whitney closure	IA	J078	ahead Consolidated Silver jv	IA.	J362 J362	YUGOSLAVIA		
ploration grants suspended	IA	J098 J108	Tin sales continue Reagan's dilemma	IA	J079 J088	Duval metals divestiture	IA	J363	Yugoslav zinc find	16	MO
atley Quarry expansion	IA	J130	Quail and Gopher Bill			Noranda/Greenwich jv Goldstripe mine imminent	IA	J379 J379	Yugoslav mercury	H	160
eveland Potash investment al for development	IA	J130	exploration programme Cannon mine on schedule	IA	J094 J095	Morning Star switches to			Yugoslav uranium Yugoslav lead-zinc	H	MO9
corporations	IA	J150	New Cornelia shutdown	IA	J095	open pit Silver values for Pacific	IA	J380 J380	Pechiney wins contract	IA	J4:
rren Spring Laboratory,	P	M083	Atlantic Richfield	IA	J096	Eesroc up for sale	IA	J380 J381	Yugoslav uranium	H	M5
	H	M091	diventment.	IA	J096	Montana gold goes ahead	H	M380			
darves news	H	M091	U.S. copper: response to	N	J105	Drilling at Foley Ridge Foreign assistance and	H	M380			
	IA N	J187 J213	Queenstake resources			mineral supply	MW	J394	MAINE		
L. coal imports from			strategy Calvada exploration	IA	J113 J113	Richmond Hill jv Caribou silver on schedule	IA	J399 J418	ZAIRE		
		J225	Increased reserves for			Jamestows reserves up	EA	J418	Zaire makes some progress	M	Jo
w hope for Parys	_		George Washington Gold Capital to fund Seattle	IA	J113 J113	U.S. monitors imports Wining industry under	MW	J429	Sogacom dissolved Influence of transport on	H	MOS
Mountain d strike affects Alcan	MA	J236	Sales at Snap Creek	IA	J114	scruting	ME	J447	production capacity	A	<b>ж</b> 3-
power station	IA	J244	Somora update Strikes at U.S. simc plants	IA	J129 J131	Canadians spearhead new California gold rush	MIX	J447	No tolls for Gecamines	IA	J3
t potpourri	MA	J249 J253	Goldmil Resources projects	IA	J149	Tenneco Minerals bought out	AZ	J450			
DA lambastes government tal shutdown of U.K.			Herculaneum to re-open?	IA	J149	Victor mine expansion Sulphur for Rama	IA	J451 J451			
coalfields is prospect		J269 J276	Modernization of Hayden copper smelter,			Picacho gold for Glamis	IA	J452			
nex reports ushers for Whatley Quarry		J276 J279	Arizona	P	M082	Geothermal energy in	P	M560	ZAMBIA		
wdom Colliery coal loading	_		JV for Victor Gold Reid mine reserves	H	M089 M089	California Mevada gold	H	M565	ZCCM places order with Wemco	IA.	Jo
project K. coalfields respite	IA	J279 J296	More aluminium in care	IE.	M090	Sunbeam target start up		M565	Zambia revives steel plan	MW	JOS
ble investment	IA	J310	Valdez Creek results Joint seafloor mapping	1	M090	U.S.S.R.			Zambian belt success Zambia - 20 years on	IA	J1:
S contract gh temperature furnaces	IA	J311 J311	project Copper - Reagan rejects	AI	J168				Zambian interest is iron	-	
t closure pitfalls	H	J317	calls for B.A. import			Carpathians: geothermal	IA	J010	orebody Troubleshooters is Zambia	IA	
rther rationalization in	NW	J319	curbs	WW	J175	Protocol for India and			Tazara problems	IA	J3
vernment to sell strategic			Gold placer jv is Montana Musto start-up	IA	J185	U.S.S.R. India considers barter with	IA	J011	Dunlop belting for ZCCW Flow meters	IA	
minerals stockpile	MA	J342	Rich Gulch final feasibility	AZ	J186	U.S.S.R.	IA	J063	ZCCM still short	IA	J4
production	IA	J362	White Pine closure? Texaco divestment	IA	J186	Deep shaft on Kazakhstan Boliden U.S.S.R. zinc order	H	M011 M091	Nambala iron	B	145
	H	M381	Coal politics	IA	J187	U.S.S.R. manganese pits	H	M091			
fficulties will delay Selby	WW	J393	Blue Moon results awaited Portland bonus	IA	J200 J201	Lower Soviet sales U.S.S.E. tin mine	H	J177 M297			
K. opts out	MM	J413 J419	Pilot plants to develop new			BAM railway near completion	MW	J341	ZIMBABWE		
K. mineral grants lliton drops Hemerdon	IA		titanium method	IA	J201	Kostamus iron expansion	IA	J362			
option	AI	J433	FMC Corp. takes the plunge Bagdad decision soon	EA	J201 J217	U.S.S.R. gem exports hit world prices	IA	J401	Improved tim recovery at	16%	Jo
uth Crofty moderaization rnaby Cycloses wins order	IA	J435	Montana Tunnels go-shead	IA	J223	Mali/Soviet agreement	IA	J434	Zimbabwe gold mine	H	MO
cord hoist in U.K.	IA	J452	Lamprecht transfer Hecla closes Sharman	IA	J224 J224	More Soviet nickel sales to Japan?	IA	J435	Zimbabwe mineral sales Gold price in Zimbabwe	IA	
rdberg restructured romite, platinoids, gold	IA	J452	Cannon increases momentum	IA	J243	Copper in the U.S.S.R.	N	J441	Recovering tim from residues		
and moly in the			Cyprus Bagdad reopens mine	IA	J243 J244				in Zimbabwe	P	M14
Shetlands al slurry transport	PH	M559 M564	Echo Bay indecision Zinc for U.S. Mint	IA	J244	VENEZUELA			Asbestos trade Zimbabwean gold support	IA	
eal Crofty	Н	M564	Feasibility study for	-					delav	IA	J3
eal troity			Stillwater platinum		J253	Aluminium production up Ferrominera output doubled	IA	J011 J062	Problems for ZMDC	H	J31
igh gradient magnetic separation at IRD	A	M598	project						Zimbabwe mine sales		

#### **Methods and Machines**

# ASSAY METHODS Metal detectors at English China Clays New X-ray analyser suited to geological work Portable x-ray analyser for metal alloys BIOTECHNOLOGY

BIOTECHNOLOGY		
Biotechnology as an		
extraction route	M	N127
New bioleach technique for		
refractory ores	MEN	J235

Xylan coatings improve flame -proof meals 0al-oll and coal-water U.K fluidized bed coal William-speed decanter High-speed decanter A MOSS In-wc-matrifuges A MOSS In-wc-matrif	South African-made		
Xylan coatings improve flame -proof meals -proof meals Ool-oll and coal-water U.K fluidized bed coal W.K fluidized bed coal High-speed decanter Combustion project Fluidings In-web shearer boown for In-web shearer boown for In-web shearer boown for In-web shearer boown for New filter press for coal		w	J008
Coal-oil and coal-water mixtures M J041 U.K fluidized bed coal combustion project P M006 High-speed decanter centrifuges A M053 In-web shearer boost output M10electric shearer for longwall coal mining M Jill New filter prêms for coal	Xylan coatings improve flame		
U.K flidized bed coal combustion project High-speed decanter Centriuges A M053 In-section output In-section sheare for Ingent of Ingent output New filter préss for coal		34	J009
U.K fluidized bed coal combustion project P MOOG High-speed decanter centrifuges A MOSS In-web shearer boost output N MOGS All-electric shearer for longwall coal mining M Jill New filter préms for coal			
combustion project P M006 High-speed decanter centrifuges A M053 All-electric shearer for longwall coal mining W J111 New filter prêms for coal		M	J041
High-speed decanter centriques A M053 In-web shearer boost output W M063 All-electric shearer for longwall coal mining W J111 New filter press for coal			
Centrifuges In-web shearer boost output M M063 All-electric shearer for longwall coal mining V J111 New filter press for coal		P	M006
In-web shearer boost output N M063 All-electric shearer for longwall coal mining N J111 New filter press for coal			
All-electric shearer for longwall coal mining W J111 New filter press for coal		A	
longwall coal mining # J111 New filter press for coal		86	M063
New filter press for coal			
		M	J111
preparation M J240	New filter press for coal		
	preparation New spiral for fine coal	M	J240

recovery	36	J256
Coal plant inaugurated	M	J275
Continuous miners achieve		
records	M	M348
Solar plant for drying brown		
coal	M	J376
All-electric coal shearer	M	M610
COMMINUTION		
COMMINUTION		
Reduction of ball mill costs		
by using angular spiral		
armour-plated linings	n	M270

Reduction of ball mill coats by using angular spiral		
armour-plated linings	D	M270
Gearless drive type grinding mill	ú	J241
Tough crushers for mining		
use	M	11351
Chemical rock splitter	16	J344

W. 4		
Hydraulic hammers for breaking oversize	14	M531
Couplings for large portable	-	8031
crushers	26	M532
Demonstration plant in U.K.	16	J416
Rubber mill linings for		
Sicartsa	M	J448
COMPLITEDO		

## Computerized load-out system M M059 Software system for Noranda IA J079 \$12 million order for Australian miss M J111 New mountains M J111 New mountains M J111 France M J241 Process control innovations M J344

Major new mineral database	H	J397 M555	Mine development: an environmental seminar	A	M305	The future of mining	I		Strikes at U.S. zinc plants		J131 J131
High technology		Mooo	Revegetation at Bougainvill Copper	e A	M307	Planning exploration Meeting on cyanide Surface mining & reclamation	I.	J363	Quebec pay talks U.K. coal talks Mexicas strike defused	IA IA	J187 J187
CONVEYORS			Too little, too late? Environment: codes or laws	H	J363 J389	Explosives and blasting USGS mineral resources	I	J381	N.S.W. coal backlog Alcan labour accord	IA	J187 J187
Conveyor belts - some trends in construction and	IA	J131	EQUIPMENT SUPPLIE	RS		Geological survey Challenges and constraints 12th World Mining Congress	E	J381 M371 M501	Rio Algom and Denison accord A striking compromise Inco strike averted	d IA	J187 J193 J202
joining Steel-cord ply belt	A	M106 J164	Classifiers Conveyor belts - some trends	A	M040	AIME meeting Uranium tailings	IA	J419	Amax strike Noranda offer to zinc	IA	J202
U.K. conveyor equipment for Canadian potash mine Marketing of motorized	M	J198	in construction and Joining	Α.	M106	Asian mining '85 Mineral trends is developing countries	E IA		workers Mt. Isa strikes Mt. Isa strike off	IA IA	J226 J226 J244
conveyor drum Monitoring conveyor belt	M	J293	Plant reagents 6th International Electra	A	M215	Tunnelling '85 Placer conference	IA	J435 J452	Billiton stoppage Rand Mines strike ballot	IA	J244 J244
Speed and temperature High wear-resistant belt	M	J376	mining exhibition Classifiers Conveyor belts - some trends	A	M245 M040	Denver meeting Mineral processing and	IA	J452	Pit potpourri Total shutdown of U.K.	M	J249 J269
cleaners		16533	in construction and joining	Α	M106	extractive metallurgy conference, China	A	M594	coalfields in prospect Billiton back at work Marievale back to normal	IA	J279 J279
DREDGING			Plant reagents 6th International Electra	A	N215	EXPLORATION			U.K. coalfields respite Influence of transport on	IA	J296
Novel dredge system Dredging for gold in the	H	M059 M092	mining exhibition Gravity concentration Mining equipment from	A	M245 M325	Focus on gold supply Digital well logging system	N	J017 M127	production capacity  Move to curb labour disputes in the Fe ore industry	A	M342
Underwater bucket wheel dredge	M	M529	Finland at New Delhi exhibition	M	J324	Towards successful exploration	н	J157	Pit closure pitfalls Phelps Dodge v USW	NIA	J317 J330
DRILLING			Japanese equipment manufacturers 12th World Mining Congress	A	M490 M501	Lost opportunities Rutile distribution as guide to porphyry copper	MA	J236 J290	Round one to Belgian miners Cyprus Anvil - closed doors Strikes in Feru	IA IA	J330 J363 J381
New PCD materials suited to			Tyres for mining equipment Outlook for U.K. mining	A	M585	to porphyry copper Exploration by Metals Ex. Arizona mineral information	IA	J294 J308	Strikes in Bolivia Asarco strike ended	IA	J381 J381
arduous operating conditions New beach track drill	M	J008 J009	equipment	M	M608	New products for mineral exploration Nevada assay data base	M	J359 J449	Kembla and its workers Bougainville back to work	IA	J381 J381
Automatic rod handling on hydraulic long-hole rig	H	J040*	EXCAVATORS & LOAD	ER	S	FILTERS & FILTRATIO	100	0445	Kembla strike settled Rietspruit strike Iron ore strikes in Lorraine	IA IA	J401 J401 J401
Hard rock rotary drill The economic case for using	M	J059	Successful debut for O & K hydraulic excavator	M	J040 J063	Dewatering aids in mineral	714		Rietspruit strike settled SPCC workers ordered back	IA	J419 J419
manufactured diamond materials for drilling tools	A	1046	Wheel loader distribution Advanced scrapers for mining New combined drilling and	M	M058	processing Selective removal of	М	M258	Missouri lead belt back to work Hand-sorting and modern	IA	J435
	M	J164 J165	loading machine Skid steer loaders have	M	J075	undesirable solids Compact, low energy pressure belt filter	M	M353	milling practice	A	M602
New South African hydraulic rockdrill boosts output Lightweight exploration	M	J180	mining applications New articulated loaders from Volvo		J144			M300	LEACHING		
drill Higher output, lower costs	M	M262	Hydraulic excavator in opencast coal	м	M1.30	FLOTATION METHODS  Plant reagents		M202	Heap leach cyanidation of gold-silver ores	D	M615
claimed with extension rad	M	J240	New, efficient LHD from Finland Large excavator for Indian	М	M130	Metallurgy of the complex sulphide ores	A	M202	MAINTENANCE &		
Uprated power pack with man- portable drill in exploration work	м	J256	lignite Large hydraulic excavators	M	J199	Flotation with intermittent air supply	M	M529	LUBRIC	CAT	NOF
Drilling work at Greek power	М	N347	for Yugoslav lignite New underground loader from	M	J221	GEOLOGY & ORE RESI	ER	VES	Remanufactured fuel nozzles and tune-up kits	M	J009
Production drilling record at Magmont New, large blasthole rig	M	M348 M531	F.R.G.  Hydraulic excavator in U.K. land recovery work	M	J292 M346	Hydrogeological studies for Greece	IA	J042	Debris tester monitors machine health	м	J025
Rotary drills for Argyle diamond mine	M	N532	Wear protection for dragline buckets	M	M349 M350	Subsidence of Nanisivik mines concentrator		M018	New concept in protective coatings for steel structures	м	J076
New drill rig for	M	M533	Improved crawler dozer New elevating scraper Hydraulic excavators aid	M	M350	building Towards successful exploration	N	J157	On-site plant servicing centre	M	J128
New drill for smaller tunnels and drifts	M	J396	alluvial gold recovery in Brazil	М	J308	Joint seafloor mapping project	IA	J168	Cold weather starting of diesel engines Diesel engine protection	M	J240 J275
Impressive blasthole	M	J432	New crawler dozer Opencast mining equipment Marion - a hundred years of	H	J376 M604	Chromite, platinoids, gold and moly in the Shetlands	P	M559	On-site plant servicing Monitor for diesel engine	M	M346
EDUCATION & TRAININ	ıc		digging	И	M605	The Guelbs iron ore project, Mauritania	A	M566	protection High wear-resistant belt cleaners	M	J359 M533
Further education		J244	<b>EXHIBITIONS &amp; MEETII</b>	NG	S	Ecuador - not only oil but also mining	A	M588		M	J396
	IA IA	J419 J419	Forum rescheduled Uranium symposium	IA IA	J028 J045	HYDRAULICS &			MATERIALS HANDLING	í	
		0410	Chloride metallurgy seminar Mine water congress	IA	J079 J079	PNEUN Hydraulic torque wrench for	IA	rics	Protection against abrasion in coal mines		J025
ELECTRICAL EQUIPMEN			Drilling conference and show in Thailand, 1985 World Mining Congress	MIA	J093 J096	mining use Automatic fluid monitoring	M	M126 J199		IA	J131 J131
Electrical equipment for F.R.G. winder	M	M260	Geosat committee Mining symposium	IA	J096 J115	Valve for mining applications	М	J344	Rotary elevator copes with conveyor spillage problems	м	J396
<b>ENERGY &amp; POWER</b>				IA	J131 J131	INSTRUMENTATION			METALLURGY		
SUP Carpathians: geothermal	PL	IES	Uranium conference	IA IA	J131 J131	Indicators verify vehicle loads	м	M061		E	M003
Geothermal drilling	IA .	J010 J061		IA	J150 J150	Bin level control instrumentation	N	J112	CINKUR's Waelz plant in Turkey	A	M098
Energy oversupply is 1983 a Energy considerations B Reactive power compensator b	¥.	J073 J121 J144	Hocknex 64 Environmental seminar	IA	J150 J150	Instrumentation for aligning blastholes Intrinsically safe	М	M260	Metallurgy of the complex sulphide ores	A	M315
Queensland electrification   Western Europe's energy	IA	J168	Hydrotransport	IA IA	J168 J168 J202	multimeter Productivity boost with	М	M349	MINE HOISTING		
Uranium in the public eye	N .	J215 J233 J296	Mine ground control High attendance at Electra	IA	J202	High technology	E	M535 M555	Shaft review and loading station design	й	J145
Energy cost savings with coal-water mixtures		M291	CRU conferences	IA IA	J216 J226 J226	LABOUR			Electrical equipment for		M260
Monitor for diesel engine protection		J359	Reagents in the minerals industry	A	M223	Falcombridge strike settled Noranda layoffs	IA	J011 J011	MINE LIGHTING		
Geothermal project for		J379 J435		A	M245	Steel workers reject strike call	IA	J011	Rechargeable safety handlamp	м	J075
Geothermal energy in California P		M560	Mineral processing and extractive metallurgy, Kunming, Yunnan Prov.,			South African miners strike Bolivian strike follows talks failure	IA	J012 J027	Reliable source utilizes Sun's energy		J275
			P.R.C. Uranium in the public eye	AN	M251 J233	Centromin strike Storms hit Chilean mines	IA	J027 J028	MINERALOGY		
ENVIRONMENTAL CON	TR	OL	Open pit computerization Bulk handling	IA IA	J244 J260 J260	U.K. coal talks Conciliator brings unions and Alcan management	IA	J043	New system for polishing	м	1005
Appraisa! of new route for removal of S and nitrous oxides		J009	British industry Mine development: an	IA	J260	Pine Point contract ratified	IA IA	J043 J043	thin rock sections		J025
Quebec's acid rain plans Ok Tedi further troubles	EA.	J009 J028 J115	Towards 2000	IA	M305 J311 J311	Taiwan coal industry threatened	IA	J062 J062	MINERAL PROCESSING	í	
Environmental protections: a cost-benefit analysis A Politicians rush in N		M118 J213	CIM outlook Mining equipment from		J311 J311	Strike affects coal faces Creighton partial suspension	IA	J078 J078	Density tracers for beneficiation test work	м	J025
Economical monitoring scheme developed by U.E.		4613			J324 J330	Coml strike impasse	IA	J108 J115	Dewatering aids give significant cost		
Environmental controls at		J257	Mineral reserves estimation Surface mining	IA IA	J330 J330	troubles La Caridad declares force	IA	J115	savings Classifiers Large cascade mill for U.S.		J040 M027
Tverrfjellet, Norway P		M289	12th World Wining Congress	WW	J357	majeure	IA	J115		M	M058
Δ.											

Superconducting magnetic separator	M	M062	Thailand sells mines Loan to Bolivian mines	IA IA	J115 J130	RUBBER & PLASTICS			Fisca Silver output to rise	IA	J357 J362
Novel, low-cost magnetic separator	M	J112	Major boost for the mining	35W 36W	J139	Mine roadway dust costrol New rockdusting home	×	M122 W127	Mining in Indonesia Indian mining comparies	A	M479 M497 M501
Warren Spring Laboratory, U.K. Compact mobile plant for	P	M083	Miners welcome budget Uncertain times Towards successful	E	M079	New Total and The House	-	****	12th World Mining Congress Technical/marketing titanium study		M531
alluvial minerals Plant reagents	MA	J180 M202	exploration Foreign investment in mining	N	J157	SAFETY & HEALTH			Platinum/palladium out of step	N	J409
Reagents in the minerals industry	A	M223	Politicians rush in	MW.	J175 J213	Taiwan: mine accident	IA	J028	A forgettable year Running out of steam?	N MW	J425 J427
The RPC Sulphation Roast Process	A	M225	Changing strategies Zambia - 20 years on	M	J265 J285	Environmental protection: a cost-benefit analysis Design against noise	A	W118 J226	Production costs set to rise	MIE	J428
Recovering gold with thiourea	A	M237	A gleam of hope Indonesian opportunities	ME	J290 J301	Intrinsically safe multimeter	M	M349			
Mineral processing and extractive metallurgy,			Metal mining in India Policy criticized	HA.	J337 J342	Fire at Buffelsfontein Bockburst at Kloof	IA	J330 J363			
Kunming, Yunnan Prov., P.R.C.	A	M251	Government to sell strategic minerals stockpile	No.	J342		***		TRANSPORT-GENERA	L	
Vibrating screens for coal and other minerals	и	J275	Ghana - time for action Challenges and constraints	E	J369 M371	SCREENING			'Combi' truck for U.K. steelworks	и	16060
Developments from prominent Danish manufacturer	MA	J293 W325	Mining and smelting in Japan The Philippines - a company	A	M385	New international sieve			Botswana's rail & coal	N	J137
Gravity concentration Density tracers for beneficiation tests	М	M347	roundup Mining in Indonesia	A	M460 M479	chart	M	J076	New six-wheel drive articulated dumptruck	M	J198
Interchangeable troughs on feeders	м	M352	Environment: codes or laws Foreign assistance and	36	J389 J394	SHAFT SINKING &			Sishen rail links under review	MA	J237
Measuring flocculation of	M	J308	mineral supply U.K. mineral grants Metals policy for Japan	IA	J419 J419	TUNN	IELI	ING	Infrared heaters thaw frozen coal and ore	M	J257
New process to recover potash from brine	М	J325	A forgettable year Mining industry under	H	J425	Cactus grabs now made only			Diesel engine protection Influence of transport on	M	J275
Shell to sell patent Kamioka mine	IA A	J330 M387	scrutiny	Mile	J447	in South Africa Raise boring at Tasmanian	М	J127	production capacity Suspended dump bodies for	A	M342
Kosaka mine and smelter Japanese smelters	A	M403 M430	PUBLICATIONS			Karri mine shaft guides	M	M258 M606	BAM railway near completion	M	M348 J341
High efficiency air separator	M	M537	Focus on gold supply	N	J017				Articulated truck fleet Tazara problems	MIA	J344 J346
Rotary top feed vacuum drum filter	н	J432	Silver coins Rare earths study	IA	J045 J045	STRATA CONTROL			Large rear dump trucks to be marketed in Australia	M	J416
Tailings filtration New, high efficiency scale	H	J448	United Kingdom Mineral Statistics	R	M056	Shotcreter designed for			Two new 35 ton artics Tyres for mising equipment	A	J446 M578
High technology	M E	J449 M555	The life of Herbert Hoover - The Engineer 1874 -			gypsom mice Resin and cement grout	M	M061	New large off-highway truck	М	M609
The Guelbs iron ore project, Mauritania	A	M566	1914 Construction over abandoned	R	M056	New machine for wet-mix	М	M062			
Mineral processing and extractive metallurgy			mine workings Sulphur 2000	R	M057 J079	shotcreting Cavity filling system for	М	16063	TRANSPORT-		
Conference, China High gradient magnetic	A	M594	World mineral statistics New mine development	IA	J079 J079	underground Strata control innovations	М	M125	UNDERGI	ROF	UND
separation at IRD Hand-sorting and modern	A	M598	Handbook of underground drilling	R	M145	from Sweden New technology centre	M	J180 J256	New low-profile articulated		Manage
milling practice	A	M602	Pumps: selection, systems and applications	R	M145	Mechanized bolting rig from	M	J275	electric truck Diesel ramcars	H	M095 J165
MINING EQUIPMENT			China Clay dossier 75 years ago	E	J187 M163				New air-powered monorail transporter	M	J325
Classifiers	A	M040	Rock mechanics for underground mining	R	M255	<b>TAXATION &amp; TARIFFS</b>			Electric artic truck for underground	M	M537
New engine for construction/ mining and industrial			Michell - a family of Cornish engineers,			CDM baulks at Diamond tax					
applications Weighing equipment for Polish mines	M	J220 M259	1740-1910 Gold and silver handbook	R	M255 M354	ішпревье	NA	J020			
Twin boom miner for bauxite Gravity concentration	M	M262 M325	Sulfur - its significance for chemistry	R	M354						
Mining equipment from	a	M323	Major coal and ore ports	R	M354	TORQUE TRANSMISSIO	ON		UNDERGROUND MIN	INC	3
Finland at New Delhi exhibition Japanese equipment	М	J324	A. Graham Thomson Outer Hebrides atlas	0 1A	J305 J330	Shrink disc shaft-hub	м	J144	Subsidence of Nanisivik		
manufacturers 12th World Mining Congress	A	M490 M501	Mine ventilation Stone building and building stones in Israel	R	M518	connector	-	0.44	mines concentrator building	A	M018
Tyres for mining equipment Outlook for U.K. mining	A	M578	Sulphur, sulphur dioxide and sulphuric acid		M518				Trepanner for thin seam mining	н	M061
equipment	М	M608	Technical/marketing titanium study	н	M531	TRADE & STATISTICS			New Youdheader New South African hydraulic		J127
OFFSHORE & DEEP S			Reagents in the minerals industry	R	M603	Concentrate shortage could emerge in late 1980s	MI	J006	rockdrill boosts output Khetri copper complex	A	M163
A			Equipment for hydraulic						New underground loader from F.R.G.		J292
	MIN	ING	handling of coal	R		Sierra Leone mineral output Singapore: new gold contract	IA	J011	Influence of tenament on	M	
Canadian ridge orebody		J166	handling of coal Handbook on surface drilling	R	M603	Singapore: new gold contract finalized Focus on gold supply	IA	J012 J017	Influence of transport on production capacity	H A	M342
Canadian ridge orebody Joint seafloor mapping project U.K. opts out		J166 J168 J413	handling of coal			Singapore: new gold contract finalized Focus on gold supply A changing rationale? U.S. silver	IA N NW IA	J012 J017 J021 J028	Influence of transport on production capacity Stope filling developments at Mt. Isa	M A M	J377
Canadian ridge orebody Joint seafloor mapping project	IA IA	J166 J168	handling of coal Handbook on surface drilling	R	M603	Singapore: new gold contract finalized Pocus on gold supply A changing rationale? U.S. stiver Storms close small mines Ruthenium takes over	IA N	J012 J017 J021	Influence of transport on production capacity Stope filling developments at Mt. Isa Mamioka mine Kosaka mine and smelter	A	J377 M387 M403
Canadian ridge orebody Joint seafloor mapping project U.K. opts out	IA IA MW	J166 J168 J413	handling of coal liandbook on surface drilling and blasting  PUMPING & DRAINAG  High-head, auto-priming pump	R	M603	Singapore: new gold contract finalized Focus on gold supply A changing rationale? U.S. silver Storms close small mines Ruthenium takes over Lead and zinc mine production falls	IA N MM IA WW	J012 J017 J021 J028 J036 J037	Influence of transport on production capacity Stope filling developments at Mt. Isa Mammiska mine Kosaka mine and smelter Massaka mine and smelter Freeport Indonesia goes	A	J377 M387
Canadian ridge orebody Joint seafloor mapping project U.K. opts out Deep Sea ore discovery OPENCAST MINING The Bullmoose project	IA IA MW	J166 J168 J413	handling of coal linndbook on surface drilling and blasting  PUMPING & DRAINAG  High-head, auto-priming pump Clear water mine dewatering system	R	M603 M603	Singapore: new gold contract fulfillized Focus on gold supply A chauging rationale? U.S. silver Storms close small sines futhenium taken over Lead reconstruction falls Minor metals perform well Uranium forecast	IA N MW IA MW IA N IA	J012 J017 J021 J028 J036 J037 J042 J053 J062	Influence of transport on production capacity Stope filling developments at Mt. Isa Hammiska mine Kosaka mine and smelter Hamaska Mine	M A A	J377 M367 M403 M414
Canadian ridge orebody Joint seafloor mapping project U.K. opts out Deep Sea ore discovery  OPENCAST MINING The Bullmoose project Coal bodies for 170 ton trucks	IA MW IA	J166 J168 J413 J433	handling of coal linndbook on surface drilling and blasting  PUMPING & DRAINAG  High-head, auto-prining pump Clear water mine dewatering system Scale control in high pH milli waters	E M M	M603 M603 J060 M123 M128	Singapore: new gold contract fulfillized Focus on gold supply A chauging rationale? U.S. silver Storms close small mines fluthenium taken over Lead of the contract of the con	IA N MW IA MW IA N IA N	J012 J017 J021 J028 J036 J037 J042 J053 J062 J069 J078	Influence of transport on production capacity Stope filling developments at Mt. Isa Mammiska mine Kosaka mine and smelter Massaka mine and smelter Freeport Indonesia goes	M A A	J377 M367 M403 M414
Canadian ridge orebody Joint seafloor mapping project U.K. opts out Deep Sea ore discovery  OPENCAST MINING The Bullmoose project Coal bodies for 170 ton Khetzreger complex Under the sky Enseen - a new oper pit gold	IA MW IA A MA E	J166 J168 J413 J433 M012 J076	handling of coal Bindbook on surface drilling and blasting  PUMPING & DRAINAG  High-head, auto-priming pump Clear water mine dewatering system Scale control in high pH mill waters New of water ind Control of water in	E M M M	M603 M603 J060 M123 M128 J164	Singapore: new gold contract formalized supply formalized supply formalized supply formalized forma	IA N MW IA MW IA N IA N	J012 J017 J021 J028 J036 J037 J042 J053 J062 J069	Influence of transport on production capacity Stope filling developments at Mt. Isa Mammiska mine Kosaka mine and smelter Massaka mine and smelter Freeport Indonesia goes	M A A	J377 M367 M403 M414
Canadian ridge orebody Joint seafloor mapping project U.K. opts out Deep Sea ore discovery  OPENCAST MINING The Bullmoose project Coal bodies for 170 ton the tri copper complex Underl copper complex Underl copper project Enseen - a new open pit gold mine in Sweden Dragline chaim	IA IA MW IA A A A A A A A A A A A A A A A A A A	J166 J168 J413 J433 M012 J076 M183	handling of coal Handbook on surface drilling and blasting  PUMPING & DRAINAG  High-head, auto-priming pump Clear waters  Scale control in high pil mill waters  was supposed to the control of the control of water in Advanced heavy duty abrasion	E M M M M M P	M603 M603 J060 M123 M128 J164 M167	Singapore: new gold contract formalized Focus on gold supply A chauging rationale? It was a constant of the second	IA N MW IA MW IA N IA N IA	J012 J017 J021 J028 J036 J037 J042 J053 J062 J069 J078 J115	Influence of transport on production capacity Stope filling developments at Mt. Isa Mammiska mine Kosaka mine and smelter Massaka mine and smelter Freeport Indonesia goes	A M A A A	J377 M367 M403 M414
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Canadian ridge orebody Joint seafloor mapping project U.K. opts out Deep Sea ore discovery  OPENCAST MINING The Bullmoose project Coal bodies for 170 ton the tri copper complex Underl copper complex Underl copper project Enseen - a new open pit gold mine in Sweden Dragline chaim	IA IA MW IA A MA E I A M	J168 J413 J433 M012 J076 M183 M283	handling of coal Handbook on surface drilling and blasting  PUMPING & DRAINAG  High-head, auto-priming pump Clear waters  Scale control in high pil mill waters  was supposed to the control of the control of water in Advanced heavy duty abrasion	E M M M M M P	M603 M603 J060 M123 M128 J164 M167	Singapore: new gold contract formalized potentialized potentialized to the contract of the con	IA N MW IA N IA N IA IA IA IA IA IA IA	J012 J017 J021 J028 J036 J037 J042 J053 J069 J078 J115 J115 J124 J125 J130	Influence of transport on production capacity Stope filling developments Limit Wt. Isa Limit Wt. Isa Konaka mine and smelter REMARKA mine Freeport Indonesia goes underground  VENTILATION & DUST CO Mine roadway dust control	A M A A A	J377 M387 M403 M414 M481
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Canadian ridge orebody Joint seafloor mapping U.K. opts out U.K. opts U.K. o	IA IA MW IA A MA A E E A M M M IA	J166 J168 J413 J433 M012 J076 M183 M288 J377 J416 M604	handling of coal lisndbook on surface drilling and blasting  PUMPING & DRAINAG  High-head, auto-priming pump Clear water mine dewatering system Scale control in high pH sill waters New to for water in Hungarian bauxite mines Advanced heavy duty abrasion resistant alurry pumps  RESEARCH  Appropriate technology Classifiers Warren Spring Laboratory, Warren Spring Laboratory, Breakthrough from below? Hining research centre for Canada Australian use for scanning	E M M M M M M P M EA P MW P IA	M603 M603 M603 M603 M123 M128 J164 M167 J360 M003 M027 M083 M287 J311	Singapore: new gold contract Focus on gold contract Focus on gold supply A common gold supply Focus on gold supply	IA NMWIA IA NIA IA IA MWWIA IA MWWIA IA NIA IA NIA IA NIA NIA NIA NIA NIA	J012 J017 J021 J028 J037 J049 J053 J069 J078 J115 J115 J125 J130 J125 J130 J141 J161 J161 J161 J167 J173 J186 J173 J186 J173 J186 J173 J186 J186 J186 J186 J186 J186 J186 J186	Influence of transport on production capacity Stope filling developments that the season of the s	A A A A A A A A A A A A A A A A A A A	J377 M367 M403 M414 M481 M481 M122 J180 J241 J416
Canadian ridge orebody Joint seafloor mapping Joint seafloor mapping L.K. opts out L.K. opts out L.K. opts out Deep Sea ore discovery  OPENCAST MINING The Bullmoose project Coal bodies for 170 ton trucks Nhetri copper complex Under the sky open pit gold Enamented in Sweden Dragline chains Large rear dump trucks to be marketed in Australia Opencast aning equipment  PIPES & PIPELINES  Rapid coupling system for polyethylene pipes Bechtel to supply slurry Bechtel to supply slurry Bechtel to supply slurry Bechtel and BP investing in method to move coarse coal	IA IA MW IA A MAEE A M M IA	J166 J168 J413 J433 J433 M012 J076 M183 M283 M298 J377 J416 M604	handling of coal Handbook on surface drilling and blasting  PUMPING & DRAINAG  High-head, auto-priming pump Clear water mine dewatering Scale control in high pli mill waters New sump pump introduced Control of water in Hungarian baustte mines Advanced by the surface of the su	E M M M M P M EA P MW P IAA	M603 M603 J060 M123 M128 J164 M167 J360 M003 M027 M093 J217 M093 J217 J311 J311	Singapore: new gold contract Focus on gold co	IA NUMBER NIA NUMBER N	J012 J017 J021 J021 J028 J036 J036 J036 J036 J053 J069 J115 J115 J115 J115 J115 J115 J115 J11	Influence of transport on production capacity Stope filling developments that the season of the s	A A A A A A A A A A A A A A A A A A A	J377 M367 M403 M414 M481 M481 M122 J180 J241 J416
Canadian ridge orebody Joint seafloor mapping Joint seafloor mapping L.K. opts out Deep Sea ore discovery  OPENCAST MINING The Bullmoose project Coal bodies for 170 ton trucks Metri copper complex Under the sky wopen pit gold Ensemble of the sky open pit gold Ensemble of the sk	IA IA MW IA A MAAE E A M M A B M M M IA	J166 J168 J413 J433 J433 J433 M012 J076 M183 M283 M298 J377 J416 M604 J059 J186 J308	handling of coal lindbook on surface drilling and blasting  PUMPING & DRAINAG  High-head, auto-priming pump Clear water mine dewatering system	E M M M M P M EA P MW P IAA	M603 M603 M603 M603 M123 M128 J164 M167 J360 M003 M027 M083 M287 J311	Singapore: new gold contract formalized procum on gold supply formalized power of the procure of	N MW MW IA N IA MW MW IA	J012 J017 J021 J021 J022 J036 J036 J036 J036 J052 J069 J115 J124 J125 J115 J1161 J161 J161 J161 J161 J161 J1	Influence of transport on production capacity Stope filling developments that the season of the s	A A A A A A A A A A A A A A A A A A A	J377 M367 M403 M414 M481 M481 M122 J180 J241 J416
Canadian ridge orebody Joint seafloor mapping Joint seafloor mapping L. K. Polect L. K. Polect Deep Sea ore discovery  OPENCAST MINING The Bullmoose project Coal bodies for 170 ton Khetri copper complex Under the sky Enseen - a new open pit gold Death of the sky Enseen - a new open pit gold Death of the sky Enseen - a new open pit gold Death of the sky Enseen - a new open pit gold Death of the sky Enseen - a new open pit gold Death of the sky Enseen - a new open pit gold Death of the sky Enseen - a new open pit gold Death of the sky Enseen - a new open pit gold Death of the sky Enseen - a new open pit gold Death of the sky Enseen - a new open pit gold Death of the sky Enseen - a new open pit gold Death of the sky Enseen - a new open pit Bechtel and BP investing in method to move coarse coal  POLITICO-ECONOMIC Zaire makes some progress AIOA ch-irman calls for Focus on gold supply	IA IA MW IA A MAEE A M M IA	J166 J168 J413 J433 J433 M012 J076 M183 M283 M298 J377 J416 M604	handling of coal lindbook on surface drilling and blasting  PUMPING & DRAINAG  High-head, auto-priming pump Clear water mine dewatering system Scale control in high pil mill waters New sump pump introduced Control of the pump in the p	E M M M M P M EA P MW P IAA IA	M603 M603 M603 M603 M128 M128 M167 J360 M003 M0027 M083 J217 M287 J311 J311 J311	Singapore: new gold contract Focusinalized supply October and the second	N MW MW IA M	J012 J012 J012 J022 J023 J036 J036 J036 J036 J036 J036 J115 J131 J141 J115 J1125 J130 J1125 J130 J1125 J130 J141 J141 J141 J141 J141 J141 J141 J14	Influence of transport on production capacity Stope filling developments  Ramsinks miles Konska mine and smelter Ramsinks mine in the fire freeport indonesia goes underground  VENTILATION & DUST  CO  Mine roadway dust control New vortex shedding menor for monitoring air flow Rew notware for ventilation France U.Kmade dust extraction equipment Measurement of respirable dust  WEAR-RESISTANT  MAT	A A A A M M M M	J377 M387 M403 M414 M481 M481 J180 J241 J416 M607
Canadian ridge orebody Joint seafloor mapping policit L. K. Tolgect Deep Sea ore discovery  OPENCAST MINING The Bullmoose project Coal bodies for 170 ton Trucks Tr	IA IMWIA A MARE A MM MM IA N MM IA	J166 J168 J168 J413 J433 J433 J433 J433 J433 J433 J446 J377 J416 J604 J059 J186 J308 J001 J005 J017 J044	handling of coal lindbook on surface drilling and blasting  PUMPING & DRAINAG  ligh-head, auto-priming pump Clear water mine dewatering system Scale control in high pil mill waters New sump pump introduced Cont. Surface of the surf	E M M M M P M EA P MW P IAA IA	M603 M603 M603 M603 M128 M128 M167 J360 M003 M0027 M083 J217 M287 J311 J311 J311	Singapore: new gold contract Pocumalized supply Octable present processing the processing rationale? U.S. silver Storms close small mines Ruthenium takes over Lead and dutie falls Minor metals perform well Uranium forecast Some optimism in B.C. Molybdenum demand A.S. Some optimism in B.C. Molybdenum demand Octable process Concentrate shortages loom CSA tender Concentrate shortages loom CSA tender Concentrate shortages loom Loom track the processing the	N MW MW IA M	J012 J017 J017 J018 J028 J037 J042 J053 J053 J053 J062 J062 J078 J115 J115 J115 J116 J116 J116 J116 J116	Influence of transport on production capacity Stope filling developments  Ramsinas mine and smelter Ramsinas mine and smelter Ramsinas mine freeport indocenia goes underground  VENTILATION & DUST CO  Mine roadway dust control new vortex shedding mensor for monitoring air flow new ortex shedding mensor for monitoring air flow new software for ventilation calculations from Calculations from Quipment Measurement of respirable dust  WEAR-RESISTANT  WEAR-RESISTANT  Mew wear plate for coal skips	A MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	J377 M387 M403 M414 M481 M481 J180 J241 J416 M607
Canadian ridge orebody Joint seafloor mapping U. K. rolled U. K. rolled Deep Sea ore discovery  OPENCAST MINING The Bullmoose project Coal bodies for 170 ton Khetruckser complex Under the sky Enseen - a new open pit gold mining end in Sweden Dragline chains Large rear dump trucks to be marketed in Australia Opencast mining equipment  PIPES & PIPELINES Rapid coupling system for polyethylene pipes Bechtel to supply slurry pipeline Bechtel and BP investing in method to move coarse coal  POLITICO-ECONOMIC Zaire makes some progress AIOA ct-irman calls for overseas debt relief Focus on gold supply Skalistiris: nationalized and Jossansking Mine of values The consultance of the coarse Coal  Mine of the coarse coarse overseas debt relief Focus on gold supply Skalistiris: nationalized and Jossansking Mine of the coarse coarse The economic coarse overses	IA IA MW IA A MAAE I A MM MM I MM I N MW	J166 J168 J413 J413 J413 J413 J075 M183 M283 M288 J377 J416 M604 J059 J186 J308	handling of coal Bindbook on surface drilling and blasting  PUMPING & DRAINAG  Bigh-head, auto-priming pump of the property of	E M M M M P M EA P MW P IAA IA	M603 M603 M603 M603 M128 M128 M167 J360 M003 M0027 M083 J217 M287 J311 J311 J311	Singapore: new gold contract Focusing and a servent Focus and a servent Lead and zinc mine Lead and zinc mine Such a servent Lead and zinc mine Such a servent Lead and zinc mine Such a servent Lead and zinc mine Hinor metals perform well Uranium forecant Some optimism in B.C. Molybdanum demand Aluminium saine Concentrate shortages loom Landium saine Concentrate shortages loom Lead/zinc statistics More cuthacks required More cuthacks required More cuthacks required Bull run for bismuth A shot across the bows Copper figures Bauxite/aluminsin Zimbabes almeral sales Mineral reverses increase 75 years ago Pit potpourri Bulliah metal forecast from Chinese metal import figures Changing strategies Rising mineral exports Steam trade improves Rising mineral exports Steam trade improves China's metal import surge China's metal imports surge China's metal imports surge China's metal imports surge Production increases	N MWW MW IA MWW IA N MWW IA N MWW IA N MWW MWW MWW MWW MWW MWW MWW MWW MWW M	JUL 20 10 10 10 10 10 10 10 10 10 10 10 10 10	Influence of transport on production capacity Stope filling developments to the filling developments to the filling developments to the filling development to the filling development to the filling development to the filling development and the filling development development for mositoring air flow the filling development development development development dust.  WEAR-RESISTANT  WEAR-RESISTANT  MAT  New wear plate for coal akips  May be the filling development development dust.	A MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	J377 M387 J403 M414 M481 M481 J180 J241 J416 M607
Canadian ridge orebody Joint seafloor mapping U. K. rouged U. K. rouged Deep Sea ore discovery  OPENCAST MINING The Bullmoone project Coal bodies for 170 ton trucks Khet in trucks Coal bodies for 170 ton Khet I can be seen that Under ore trucks Enseen - a new open pit gold market in Sweden Dragline chaine Large rear dump trucks to be marketed in Australia Opencast sining equipment  PIPES & PIPELINES  Rapid coupling system for pollysthylene pipes Bechtel to supply slurry pipeline Bechtel and BP investing in method to move coarse coal  POLITICO-ECONOMIC  Zaire makes some progress AIOA ct-irman calls for overseas debt relief Focus on gold supply Skalistiris: nationalized and Jossmaking Minor metals perform welling manufactured diamond materials for filling manufactured diamond materials for filling manufactured diamond	IA MWIA A MARE AMM MM MM IA MM N MM N N MM N N N N N N N N N N N N	J166 J168 J413 J413 J413 J413 J075 M183 M298 J377 J416 M604 J059 J059 J005 J017 J005 J017 J044 J053	handling of coal Bindbook on surface drilling and blasting  PUMPING & DRAINAG  High-head, auto-priming pump Clear batch of the system size dewatering system size dewatering system size drilling and pump introduced Control of water in control of water in the system of	E M M M M M P M EA PMW P IAA IA M	M603 M603 M603 M603 M128 M128 M167 J360 M003 M0027 M083 J217 M287 J311 J311 J311	Singapore: new gold contract Focus on gold contract Focus on gold apply A control of the second of t	IA. N. MWW. IA. MWW.	J012 J012 J012 J013 J028 J036 J036 J036 J036 J036 J036 J036 J036	Influence of transport on production capacity Stope filling developments to the transport of the transport of transport	A MAAAAAAAAA MM MM MM MM MM MM MM MM MM	J377 M387 M414 M403 M414 M481 M122 J180 J241 J416 M607 M607 M349 M351
Canadian ridge orebody Joint seafloor mapping Joint seafloor mapping L. K. Pollect L. K. Pollect Deep Sea ore discovery  OPENCAST MINING The Bullmoose project Coal bodies for 170 ton Khetri copper complex Under the sky Enssen - a new open pit gold Designed to the sky Enssen - a new open pit gold Designed to the sky Enssen - a new open pit gold Designed to the sky Enssen - a new open pit gold Designed to sky Enssen - a new	IA MW IA A M M M M M M M N N M M N N N N N N N	J166 J168 J168 J413 J433 J433 J433 J433 J433 J433 J446 J377 J416 J604 J059 J186 J308 J001 J005 J017 J044	handling of coal lisndbook on surface drilling and blasting  PUMPING & DRAINAG  High-head, auto-priming pump Clear water mine dewatering system Scale control in high pH mill waters New in Hungarian bauxite mines Advanced heavy duty abrasion resistant slurry pumps  RESEARCH Appropriate technology Classifiers Warren Spring Laboratory, Warren Spring Laboratory, Breakthrough from below? Wining research centre for Canada Australian use for acanning microscope microscope leaching industry p.R.G. research centre for ores and coal  ROCK MECHANICS Technology transfer at	E M M M M P M EA P MW P IAA M M MW	M603 J060 M123 M128 J164 M107 M003 M027 M003 J217 M267 M267 M267 M608	Singapore: new gold contract Formalized upply Occupants of the contract Occupants Occupa	IAN NIMW IAN IAN MWW IAN MW	JUL 20 10 10 10 10 10 10 10 10 10 10 10 10 10	Influence of transport on production capacity Stope filling developments  Ramsinks mine and smelter Ramsinks mine and smelter Ramsinks mine Event of the filling description of the	A MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	J377 M387 J403 M414 M481 M481 J180 J241 J416 M607

### **Companies and Other Public Bodies**

A	Bridge Oil	NW J160 NF J366	Delta Gold NL Denison Mines	IA	J309 J098	G		
Aberfoyle MF J	5 Brisco	MF J190	Derek Parnaby Cyclones	IA	J244	Gardner-Denver		3063
TA 3185 TA 3	9 British Geological Survey	IA J223 M J397	International	H	J240	M M348 Gecamines	IA J	M532 J381
AEG-Kanis Turbinenfabrik IA J	British Mining Consultants	M M063 IA J399	Dickenson Mines Dietz and Associates	MF	J435 J155	GEC Mechanical Handling	IA J	J406 J063
AGIP IA J. Agnico-Eagle MF J.	9 British Petroleum	MF J155 MF J352	Dietz and Associates DJB Engineering	M	J308 J344	Geevor Mines		J278 J031
Aiguebelle Resources IA J		IA J380 IA J224	Dome Exploration	N	J448 J094	IA J077	MF J	J405 J242
Aitken Products M J:	Broken Hill Prop.	MF J032	Dome Mines	MP	J170	Gem Exploration Genbel Investments	MF J	J155
Alcan Aluminium MP J IA J187 IA J244 MF J: IA J327 IA J:	4 IA J131 MF J261 IA J400	MF J352 IA J450	Doornfontein	MF	J243 J030	General Electric Company General Mining Union		1144
Alcan Smelters and Chemicals IA J:	3 Brown, Boveri	M M261 MF J153	Dosco Overseas Eng.	MF	J262 M262	Corporation MF J048 IA J129	MF J	J032 J205
Alcoa IA Jones IA Jones IA Jones IA Jones IA Jones IA Jones II	6	MF J404 P M373	Down Mining A M403	IA	J379 M414	General Services ME J209	MF J	1281
Alfa-Dyne MF J289 IA J	3 Buffelsfontein	MF J048	Dow Chemical Dresser Industries	A	M202 J096	Administration IA J078 IA J096		1012 1115
Allied Colloids M J	7 Bula Mines	IA J258		IA	J363	IA J131 IA J168	IA J	1202 1452
Allied Encabba MF J:	8 Bunning Bros.	M M606 MF J404	Drew Chemical Corp. Driefontein	MF	J030	George Wispey	IA J	1433
IA J	1		Drum Engineering	MF	J262 M061	Geosurvey International Giant Yellowknife Mines	MF J	1294
Alpine Bau-Gesmbh M M	7		Dunlop Belting Durban Roodepoort Deep	IA MF	J401 J046	Golden Dumps Gold Fields of South Africa	MF J	1262
Aluminium de Grece IA J		MF J349 IA J417	Duval Corp.	MF	J281 J346	MF J134 MF J205 MF J227 MF J262	ME J	1206
Amalgamated Metal Trading MW J:	1 Case Industries	NF J422	Duval Technology Engineering	IA	J363	Gold Mines of Kalgoorlie	MF J	1230
MF J098 IA J202 IA J3 MF J299 IA J346 IA J3		IA J327 IA J346	& Construction	И	M532	Goldrim Mining Goodman	A M	1279 1189
IA Je	5 Carr Boyd	MF J135 MF J404	Dynafloat	M	M061	Gorham International Greenbushes Tin		1531 1247
Amey Roadstone Corp. IA J:	Caterpillar	M J009 W W350				Greenex A/S	IA J	1380
Anderson Strathclyde N M M J111 M M	1	M M609	E			Greenwich Resources	IA J	010
M J111 M NO		IA J224	East Daggafontein	IA	J242	Griffin Coal Mining	IA J	345
Anglo American Coal Corp. ME J:	Central Selling Organisation	TA .1130	Eastern Petroleum Australia Eastern Transvaal Cons.	MF	J437 J048	Grootvlei	MF J	1048
Angle American Corn. WF J	3 0 2 2	MF J190	East Rand Gold and Uranium	MF	J281 J067	Grundfos Pumps Gulf Resources	M J	1164
ME J047 MF J049 MF J3 ME J384 MF J386 P MS MF J403 IA J450 ME J4		M J241 MF J014	East Rand Proprietary Mines	MF	J298 J048	Gulf Resources Gullick Dobson	M J	1075 1533
Anglo American Gold	MF 3003 MF 3102	MF J420		MF	J281			000
Anglower MF J	Chemical	MF J281	Echo Bay Mines IA J242 IA J244	MF	J168 J383	Н		
Anglovasi MF J209 IA J3 MF J281 MW J320 MF J3		IA J330 IA J259	Economic Commission for	MF	J420	Hachinohe Smelting Co.	A M	1430
Apex Mines MF J:	9 Chloride Security Systems Cia Auxiliar de Empresas de	M J075	Europe Eden Roc Mineral Corp.	NIA	J121 J166	Halifax Tool Co.	M M	1531
ASA Ltd. MF J: Rearco IA JO		MF J456 MF J153		IA	J223	Hamersley Holdings . Hampton Gold Mining Areas	MF J	067
IA J044 MF J068 IA J0 MF J099 P M082 IA J3		MF J172	Eickhoff Eimco	A	J127 M015		MF J	098
Ambestos Corp. MF J351 IA J3	CIMBUR	IA J223 A M098	Elandsrand	MF	M189 J067	Hampton Trust	MF J	283 456
ASEA IA JO	6 Cintex Cipec	M M125 IA J078	Eldorado Nuclear	MF	J298 J030	Hanna Mining IA J078 MF J117	IA J	050
Ashanti Goldfields MW J3	Cleveland-Cliffs	IA J167 MF J117	Electrolocation Elkem A/S	MIA	M260 J096	Haoma North West	MF J	421
Ashton Mining MF J2 Association of Tin Producing	3 1 P	MF J334 M J325	Ellicott Machine Corp.	MIA	M529 J400	Hardcastle & Richards	MF J	145
Countries IA J2 Atlantic Richfield IA J0		IA J452 MF J068	Emperor Mines Empresa Mineral Especial			Harmony MF J188 IA J277	MF J	281
MF J170 MF J2	Clydesdale (Transvall)	MF J349	Tintaya Enami	IA	J434 J028	Harrison Western Corp. Hartebeestfontein	MF J	048
M J040 A M019 N M0	Codelco	M J041 A M202	Endeavour Resources Engart Fans	IA	J260 J416	Hecla Mining	MF J:	010
M J275 A M299 N M5	WW 2391	MW J413	Enhanced Recovery Systems Ennex International	A	M225 J015		IA J	380
Atlas Corporation IA Ji	Come Lan	MF J116 IA J294	Equity Filver Mines	IA	J276 J352	Heyl & Paterson Hibi Kyodo Smelting Co.		419
Australian Consolidated Winerals IA J3	Comibol IA J244	IA J168		MF	J438	Highwood Resources	P M	166
Australian Mining and	Cominco	IA J362 IA J010	Eriez Magnetics Esco Corp.	M	M062 M349	Hilger Analytical Ltd. Hill Minerals	M J:	399 221
Smelting IA J3 Australis Wining IA J1	MF J334	MW J195 IA J346	Esso Australia Etibank	IA	J379 J155	Hill Minerals Hindustan Copper Ltd.	A M	404 183
MF J4	Commodities Research Unit	IA J226	European Economic Community N J213 MW J215	IA	J096 J401	Holywell International	M J	289 376
В	Metalurgia e Mineracao	IA J225	EZ Industries	IA	J435 J031	Homestake Mining MF J134 IA J258		050 420
	Complexe Minière du Nord	P M081 IA J433	MF J170 MF J366	IA	J418	Budgon Raw Mining and		153
Babcock-Moxey IA JO Baldt Inc. M J3	Consolidated Diamond Mines	MW J020 MF J211		M.F.	J423	Smelting Hunter Manufacturing Co.	M J	240
Barlow Sand MF J3		MF J456	_			Hunting Surveys Huwood	M J	198
Bateman Equipment M J1 Battelle Memorial Institute M J0	Consolidated Murchison	MF J262 IA J011	F			Hydra-Tight Ltd.	м м	126
N M3	Consolidated Rutile	MF J349 MF J262	Palconbridge IA J027 MF J097	IA	J011 J185	1		
Beatrix MF J2 Bechtel IA J0	Connect Funlametics	IA J295 MF J422	IA J027 MF J097 MF J349 IA J381	IA	J433			
IA J186 M J308 P M5 P M5	Cornish Mining Development	MW J253	Falcon Mines	IA	J451 J172	ICC Business Ratios Imetal	MF JO	608
Betsa MF J2 Benguet Corp. MF J0	Cortex Computer Systems	IA J079	F & S Alloys and Minerals	MF	J437	Impala Platinum MF J118 MF J205		117
Bethlehem Steel Corp. MW J3	MW J124 IA J149	MF J169	Corp. Fins Minerals Engineering	M	J076	MF J118 MF J205 Imperial Metals Corp. IA J242 MF J282	MW JS	236 310
Bharat Coking Coal IA J4		MF J366 MF J386	Flanagan McAdam Resources	MF	J366 J275	Inco MF J083 MF J119	MF JG	015
Billiton MF JO	Craigmont Mines	MF J190 MF J422	Flight Systems	16	J359	MW J251 MF J298	IA J	202 309
IA J346 IA J4	Cruway Inc.	M J059 IA J129	Flin Flon Mines F. L. Smidth Fluor	M	J201 J293	IA J327 IA J362 Indian Ocean Resources	IA JI	440 166
Billiton Thailand IA J4 Blyvooruitzich: MF J0	Cunnus Anuil Mining	IA J310 IA J243	Fluor FMC Corp.	IA	J113 J201	Ingersoll Rand	A MO	013 189
MF J188 MF J2 Boart International M M1		IA J363 IA J243	Folldal Verk A/S	IA P	J260 M289	Inspection Instruments Institution of Mining and		025
Bohler M M3 Boliden MF JO	Cyprus Bagdad Copper	IA J243 IA J347	Foote Mineral Co.	IA	J114 J372	Institution of Mining and Metallurgy International Bauxite	E MO	003
MF J190 1A J201 1A J2	3		Forsayth Oil and Gas	IA M	J094 J256	Association	IA J	401
Botswans RST MF J1	D		Fosroc International	M	J344	International-Hough		350 376
Bougainville Copper IA JO IA JO79 MF J171 A M3	Dampney Co.	M M351	The Foxboro Company Frederick Parker	IA	J344 J311	International Iron and Steel Institute	MW J2	252
BP Canada IA J1	B Davy Corporation	IA J450 IA J452	Freeport Indonesia Freeport McNoRan	A MF	M481 J119	International Minerals & Chemical	MF J3	314
Bracken MF JO	De Beers	M J008 P M375	IA J363 MF J365 Freeport of Australia	MF	J439 J166	International Paint		076
MF .12	Deelkraai	MF J030	Free State Geduld	MF	J067	International Primary Aluminium Institute		027
Breakwater Resources IA JO Brenda Wines MF J1 IA J3	Delfilt	M J448 M M349	Furukawa	IA	J063 M449	International Research and		598
IA J3				**	44.40	Development Co.	A ME	, urd

International Tin Agreement International Tin Council 8 J219	N S WW	J086 J074 J429	Marlow Drilling Services Martin Engineering Martin Marietta	N N	J256 M533 J282 J400	Plaisters and Hanger International Planet Resources Group	M	M529 J327	Sumitomo Metal Mining 8 M427 Sumehine Mining MF J382	IA A MF MF	M443
International Tin Research Council International Wrought Copper	P	M561	Mary Kathleen Uranium Matthew Hall Ortech	MF IA	J172 J130	P.M. Mineral Leaching Technologies Polysius Group	M	J235 M608	Swedengineers AB	H	J180
Council Intradym	MA	J073 M063	McFinley Red Lake McIntyre Mines	IA	J366 J225	Portland Smelter Services Portman Mining	IA	M557 J095	т		
Iscor Italsider	IA	J237 J061	MDA Scientific Mockatharra Winerals	M	M607 J319	Poseidon Pozamett	MF	J247 M125	Tamova	H	J009
Ivory Coast Syndicate	IA	J200	Messies	IA	J451 J225	President Brand	MF	J067 J453	Tara Exploration Tata Iron and Steel	MF	M062 J031 J365
3			Metallurgie Hoboken Overpelt Metals and Minerals Research	MA	J334 J021	President Steyn  #F 529%  Priesks Copper Mines	MP	J067 J453 J247	Teck-Corosa Operating Corp.	MY	
Jakem Timbers Jarvis Clark	M	M606	Services Metals Exploration	MW	J357 J078	Priesal Copper attes	MF	J349	Teck Corporation IA J201 MF J230	A	M012
Jeffrey Mining Machinery	MF	J165 J405	MIN Holdings	MF	J312 J043	Q			Tenneco Minerals	MF	J315
Jimberlana Minerals J. Jones Automation	H	J257 M262	MF J050 MF J170 MF J247 MF J312	IA	J226 J361	Quebec Sturgeon	MF	J262	Terex Equipment	M	J198 M604
JKS-Boyles Johannesburg Cons. Investment	MF	J046	Mindey Mineral Processing Systems	N	M050 M058	Queensland Resources	MP	J066	Tetranetics Technologies Group	16	J44B
ME J132 MF J155 MF J203 ME J210	IA	J201 J282	Minerals and Resources Corp.	MP	J247 J313	Queenstake Resources	MF	J456	Texaco Thaisarco	IA	J187 J114
John Mowlem Johnson Watthey	MF	J439 J245	Mine Safety Appliances Co. Mitchell Cotts	H	M127 J079	R .			Thielach Engineering	и	J275
MF J314 Joy Manufacturing	MF	J367 J008	Mitsubishi Corp.	H	J112 J202	Rammer-Oy	M	M531	Tiefbau GeambH Titanium Metals Corp.	M	
Joy Process Equipment	M	M348 J311	Mitwui	A TA	M435 J044	Ramm Venture Corp. Handfontein	MF	J451 J046	Trans-Natal Coal Corp. MF J171	MF	J031 J348
J. R. Encapsulations	M	J360 J025	A M387 A M453 Moog Controls	IA M	J401 J344	Band Loaden	MF	J282 J133	Transvaal Consolidated Land Trelleborg	MF	J383 J448
J. S. Redpath Ltd.	M	M347 M258	Morgardshammar Mount Isa Mines	A	M301 J111	Hand Mines MF J188 IA J244	MF	J046 J281	Tround International Taumeb Corp.	MF	
_			MTD Mangula	MF	J377 J437	IA J295 IA J379 Bautaruski	IA	J451 J400	Tunax Resources	IA	M167 J259
K			Muscocho Explorations	IA	J185 J361	Rea Gold Corp. Regional Resources	IA	J345 J010	U		
Kaiser Aluminum MF J133 IA J150	IA	J043 J313	Musto Explorations Mykobar Mining Co.	IA IA	J186 J063	Hemimon Galdflelds IA J294 MF J299	MP	J189 J314		**	1100
Kemira Oy Kennecott	IA	J095 J279				Research and Productivity Council	A	M225	UCC International Umetco Minerals	M IA MF	J198 J400
Kenroc Tools	IA	J329 J361	N			Reserve Mining Co. Mexsord	M	J451 M059	UNC Resources Union Carbide	IA	
Kent Industrial Measurements Kerr Addison Mines	MF	J401 J119	Natal Coal Exploration National Air Vibrator	M	J366 M352	Reynolds Wetals	IA	J416 J078	Union Miniere Union Tin	MF	J048
Kerr-McGee	MF	J404 J135	National Coal Board MF J081 IA J311	P	M006 J317	MF J151 MF J172 IA J310	MF	J283 J386	Unisel	MF	
KHD Humboldt Wedag	P	J275 M286	NEECO Minerals	IA	J396 J451	Rheinische Braunkohlenwerke Rhone Poulenc Chemicals	IA	J380 J012 J180	United Nations United Siscoe Mines	I A	J027 J456
Eia Ora Gold Corp. MF J422	IA	J129 J451	New England Antimony Mines Newmont Mining	MF	M237 J118	Richards of Leicester Rio Algom IA J187	MF	J099 J242	Unit Rig & Equipment Urangesellschaft Canada	IA	J063
Kidd Creek Mines IA J042	MF	J010 J405	New Zealand Steel	MF	J383 J118	Rio Tinto Zimbabwe	MF	J437 J014	Uranium Institute U.S. Bureau of Mines	NIA	J233 J028
Kiena Gold Mines Kinross	MF	J224 J048	Ni-Cal Developments	IA IA	J129 J289 J434	Rio Tinto-Sinc Corp. MF J211 MF J227 IA J259 IA J296	ME MF	J228 J332	U.S. Steel Utah Mining	IA MW	J279
Kiruna Truck	M	J282 J093	Nippon Light Metal Nippon Mining Co. Moranda Wines	A	M457 J011	Robertson Research Rooiberg Tim	M	M127 J349		-	****
Kloof MF J229	MF MF	M537 J030 J262	WF J065 IA J079 AF J153 IA J226	IA	J094 J379	RST International	MF	J015 J433	V		
Kobe Steel	IA	J202 J241	MF J403 IA J434 Nordberg Machinery	IA	J450 J452	HTZ Filler Rustenburg Platinum	107	J422 J064	Vanl Reefs MF 2208	MF	J412
Kockun Komalau	A	M299 M013	Nord Resources	MW	J252 J440	ME J066 ME J100	107	J116	Valiant Cossolidated Venterspost	MF	J030
Korf & Fuchs	A	M189 M059	Norsk Hydro	IA IA	J012 J362	8			MF J229 IA J244 Vereinigte Aluminium Werke	MF	
Krubs Krupp Industrie und Stahlbau	A	M015 M099	Norsk Hyperit North Broken Hill Holdings	IA	J279 J031	SLAB-SURETA	H	J220	Vestgron Mines Vidaplate	IA	J129 J041
RIUPP INGINETTE UNO OTANIONO		2000	IA J146 MF J230	MF	J280 J455	St. Helens	MF	J048 J281	Vlakfontein	MF	J030 J262
r.			North Davao Mining Corp. Northgate Exploration	A	M471 J031	St. Joe Minerals Sala International	M	J115 J432	Volvo	M A	J144 M299
Lacasa Mining	MF	J189 J386	MF J151 North Kalgurli Mines	MF	J246 J084	S.A. Wanganese Amcor Samantha Exploration	MP	J332 J437 J325			
Lac Minerals IA J130 IA J363	MF	J103 J365	Norwest Holst	MF	J421 J311	Sanfred Resources	IA	J450	w		
La Luz Mines Landrill UK	MF	J440 J028	Nuinasco Resources	IA	J094	Saskatchewan Mining Dev. Corp. Scheme Engineering	P	M373 J180	Wankie Colliery	MF	J436
Lanz GmbH Larox Pty.	MIA	J111 J296	0			Schmelzbasaltwerk Kalenborn	×	J025 J292	Water Management Chemicals Welgedacht Exploration	MF	J449 J364
Laurasia Resources Law of the Sea Convention	IA	J077 J413	Oak	M	J040	Schopf Maschinenbau Schramm N W126	A	M013 J165	Wemco	IA	J028 M015
Lend Development Association Lemand Engineering	MM	J393 J128	M J221 IA J225 Occidental Petroleum	M. IA	M346 J277	Scintrex Seltrust Holdings	IA	J279 J113	West Coast Holdings Wesco Technologies	IA	J185 M122
Leonora Exploration	MF	M346 J031	Octha Holdings Ok Tedi	HF	J315 J027	MF J188 MF J247 Semperit Technical Products	MF	J366 J164	Western Areas	MF	J046 J282
Leslie	MF	J048 J282	P M005 IA J131	MW IA	J139 J418	Shaft Sinkers (Pty) Sheafer-Townsend	H	J127 J260	Western Deep Levels IA J202 MF J298	MF	J065 J400
Les Mines des Potasses d'Alsace	IA	J435	Ontario Mining Association O'okiep Copper	MA	J272 J119	Shell Canada Resources Shell International	IA	J026 J330	Western Holdings MF J297	MF	J067 J453
Libanon MF J229	MF	J030 J262	MF J231 MF J349 Outokumpu	MF P	J406 M005	Sherritt Gordon IA J310 IA J361	WF	J155 J362	Western Mining Corp.	IA MF	J225 J297
Liberian Iron Ore Co.	MF	J406 J072	NW J123 IA J168 IA J277 N J396	IA	J202 J400	Skega	IA	J418 W348	Western Platinum Westfield Minerals	IA	J433 J185
Logitech Ltd. Lokomo	M A	J025 M301	ONCE Fuel Co.	A	M589 M291	Silverado Mines Silver Institute	IA	J276 J362	IA J345 IA J399 Westley Wines	IA 1A	J450 J113
London Metal Exchange	M	M351 J053	Oy Airam Kometa	М	J240	Simplex-GE Ltd. Skyline Exploration	M	M535 J166	Westmin Resources Westralian Sands	IA	J005 J361
8 J074 8 J092 8 J219 8 J307	S	J179 J415	P			Société d'Entreprise et d'Investiggements S.A.			West Rand Cons.	MF	J048 J281
Lonrho	MW IA	J427 J244	Palabora Mining Co.	IA MF	J027 J135	(Sibeka) Société Geserale des		J082	White Creek Whitford Plastics	M	J400 J009
Loraine MF J209	MF	J048 J281	Pamour Porcupine Pancontinental Mining	MF	J404 J455	Société Le Nickel	MF	J171 J438	William Joses (Chemical Engineers)	М	M353
Lornex Mining Corp.	MF	J068	P & H Paranapanema SA	A MM	M012 J305	Société Miniere de Bakwanga (MIBA)	MF	J081	William R. Selwood Ltd. Winkelbank	ME	
M			Pechiney IA J061 IA J201	IA	J042 J418	Société Mationale Industrielle et Minière	P	M081	Wiseda	MF	J282 J416
Malaysia Mining Corp. MF J189	MF	J030 J352	Pegasus Gold	MF	J452 J423	Solidate Soquem	HF	M259 J029	Witbank Colliery Worsley Alumina	MF IA	J364 J096
Malvern Instruments	MA	J308 M189	Peko-Wallsend MF J331	MF	J231 J347	South African Chamber of	MW	J355			
M.X.N. (Maschinenfabrik Augsburg-Nurnburg)	М	J199	Pelsart Resources Perusyhytma	IA	J450 M130	Southern Goldfields Southern Peru Copper	IA	J223 J340	Z		
Manganese Ore Ltd. Mannesmann Demag	IA	J309	Petromin Pezamerica Corp.	MF	J259 J099	Southern Ventures	IA	J419 J148	Zambia Consolidated Copper		
Baumaschinen M J308	M IA	M130 J363	PHB Weserhutte Phelps Dodge	AI	J296 J095	South Roodepoort	IA MF	J400 J262	IA J028 MF J190	MF	J246
Marbill Developments Marievale	MF	M607 J048	Philippi-Hagenbuch	MF	J455 J076	Sperry Corp. Stilfontein	MF	J111 J048	Zambia Consolidated	IA	
IA J279 Marinduque Mining	MF	J281 J150	Phoenix Geophysics Pilkington Bros.	H	J359 J396	Stromnes	MF	J281 M299	Inventments Zimbabwe Alloys Zimbabwe Mining Development	MF	
Marion	IA A	J168 M013	Placer Developmen't IA J044 MF J117	MF	J011 J404	Stuwe Sullivan Mines	IA	J144 J042		MN	
	M	M605	IA J433	MF	J438	Sumitomo Heavy Industries	IA	J096	Zinc Corporation	MF	J349

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